Table 1: Removed sequences

5-HTR1F Pig XP-0056 5-HTR2A X1 Pig XP-0136 5-HTR2B isoform 2 Human NP-0116 5-HTR2B X3 Chimpanzee XP-0168 5-HTR2B X2 Gorilla XP-018 5-HTR2B X2 White tuffed marmoset XP-018 5-HTR2B X2 Gray mouse lemur XP-012 5-HTR2B X2 Sheep XP-012 5-HTR2B X2 Rabbit XP-013 5-HTR2B X2 Human XP-016 5-HTR2B X2 Chimpanzee XP-016 5-HTR2B X2 Chimpanzee XP-006 5-HTR2C X1 Mouse XP-016 5-HTR2C X2 Gorilla XP-009 5-HTR2C X2 Gorilla XP-008 5-HTR2C X2 Grailla XP-0286 5-HTR2C X2 Crab eating macaque XP-0286 5-HTR2C X2 Cow XP-0246 5-HTR2C X2 Cow XP-0246 5-HTR2C X2 Chicken XP-0246	XP_005670343.2 XP_013835971.2 NP_001307687.1 XP_016806173.1 XP_028687039.1 XP_028687039.1 XP_012604842.1 XP_012604842.1 XP_013840017.1 XP_013840017.1 XP_016806172.1 XP_016806172.1	366 470 439 439 414 414 386 439 440 456	just a point mutation of the curated NP-999266.1 just a point mutation of the curated NP-999382.1 no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside hominini no curated ortholgue & ncbi sequence doesn't exist outside hominini no curated ortholgue & ncbi sequence doesn't exist outside hominini
Pig Human Chimpanzee Gorilla Rhesus monkey White tufted marmoset Gray mouse lemur Sheep Pig Rabbit Human Chimpanzee Human Gorilla Rhesus monkey Crab eating macaque Cow Chicken	XP_013835971.2 NP_001307687.1 XP_016806173.1 XP_028687039.1 XP_008997935.1 XP_012604842.1 XP_012604842.1 XP_012604842.1 XP_013840017.1 XP_013840017.1 XP_008257523.1 XP_006712545.1 XP_016806172.1	470 439 439 414 414 414 436 436 456	just a point mutation of the curated NP-999382.1 no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside hominini no curated ortholgue & ncbi sequence doesn't exist outside hominini
Human Chimpanzee Gorilla Rhesus monkey White tufted marmoset Gray mouse lemur Sheep Pig Rabbit Human Chimpanzee Human Mouse Chimpanzee Gorilla Rhesus monkey Crab eating macaque Cow Chicken	NP_001307687.1 XP_016806173.1 XP_018877825.1 XP_028687039.1 XP_012604842.1 XP_012003889.1 XP_012003889.1 XP_013840017.1 XP_008257523.1 XP_006712545.1 XP_016806172.1 NP_001243690.1	439 439 414 414 386 439 440 456	no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside homimini no curated ortholgue & ncbi sequence doesn't exist outside homimini no curated ortholgue & ncbi sequence doesn't exist outside homimini
Chimpanzee Gorilla Rhesus monkey White tufted marmoset Gray mouse lemur Sheep Pig Rabbit Human Chimpanzee Human Mouse Chimpanzee Gorilla Rhesus monkey Crab eating macaque Cow Chicken	XP_016806173.1 XP_018877825.1 XP_028687039.1 XP_008997935.1 XP_012604842.1 XP_012003889.1 XP_013840017.1 XP_008257523.1 XP_006712545.1 XP_016806172.1 NP_01243690.1	439 414 414 386 439 440 456 456	no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside hominini no curated ortholgue & ncbi sequence doesn't exist outside hominini
Gorilla Rhesus monkey White tufted marmoset Gray mouse lemur Sheep Pig Rabbit Human Chimpanzee Human Mouse Chimpanzee Gorilla Rhesus monkey Crab eating macaque Cow Chicken	XP_018877825.1 XP_028687039.1 XP_008997935.1 XP_012604842.1 XP_012003889.1 XP_013840017.1 XP_008257523.1 XP_006712545.1 XP_016806172.1 NP_001243690.1	439 414 414 386 439 440 456	no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside homimin no curated ortholgue & ncbi sequence doesn't exist outside homimini no curated ortholgue & ncbi sequence doesn't exist outside homimini
Rhesus monkey White tufted marmoset Gray mouse lemur Sheep Pig Rabbit Human Chimpanzee Human Mouse Chimpanzee Gorilla Rhesus monkey Crab eating macaque Cow Chicken	XP_028687039.1 XP_008997935.1 XP_012604842.1 XP_012003889.1 XP_013840017.1 XP_008257523.1 XP_006712545.1 XP_016806172.1 NP_001243690.1	414 414 386 439 440 456 456	no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside hominini no curated ortholgue & ncbi sequence doesn't exist outside hominini
White tufted marmoset Gray mouse lemur Sheep Pig Rabbit Human Chimpanzee Human Mouse Chimpanzee Gorilla Rhesus monkey Crab eating macaque Cow Chicken	XP_008997935.1 XP_012604842.1 XP_012003889.1 XP_013840017.1 XP_008257523.1 XP_006712545.1 XP_016806172.1 NP_001243690.1	414 386 439 440 436 456	no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside homimin no curated ortholgue & ncbi sequence doesn't exist outside homimini
Gray mouse lemur Sheep Pig Rabbit Human Chimpanzee Human Mouse Chimpanzee Gorilla Rhesus monkey Crab eating macaque Cow	XP_012604842.1 XP_012003889.1 XP_013840017.1 XP_008257523.1 XP_006712545.1 XP_016806172.1 NP_001243690.1	386 439 440 436 456	no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside hominini no curated ortholgue & ncbi sequence doesn't exist outside hominini no curated ortholgue & ncbi sequence doesn't exist outside hominini
Sheep Pig Rabbit Human Chimpanzee Human Mouse Chimpanzee Gorilla Rhesus monkey Crab eating macaque Cow Chicken	XP_012003889.1 XP_013840017.1 XP_008257523.1 XP_016806172.1 XP_016806172.1 NP_001243690.1	439 440 436 456	no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside homimin no curated ortholgue & ncbi sequence doesn't exist outside homimin
Pig Rabbit Human Chimpanzee Human Mouse Chimpanzee Gorilla Rhesus monkey Crab eating macaque Cow Chicken	XP_013840017.1 XP_008257523.1 XP_006712545.1 XP_016806172.1 NP_001243690.1	440 436 456 456	no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside hominini no curated ortholgue & ncbi sequence doesn't exist outside hominini no curated ortholgue & ncbi sequence doesn't exist outside hominini
Rabbit Human Chimpanzee Human Mouse Chimpanzee Gorilla Rhesus monkey Crab eating macaque Cow Chicken	XP_008257523.1 XP_006712545.1 XP_016806172.1 NP_001243690.1	436 456 456	no curated ortholgue & ncbi sequence doesn't exist outside primates no curated ortholgue & ncbi sequence doesn't exist outside hominini no curated ortholgue & ncbi sequence doesn't exist outside hominini
Human Chimpanzee Human Mouse Chimpanzee Gorilla Rhesus monkey Crab eating macaque Cow Chicken	XP_006712545.1 XP_016806172.1 NP_001243690.1	456 456	no curated ortholgue & ncbi sequence doesn't exist outside hominini no curated ortholgue & ncbi sequence doesn't exist outside hominini
Chimpanzee Human Mouse Chimpanzee Gorilla Rhesus monkey Crab eating macaque Cow Chicken	XP_016806172.1 NP_001243690.1	456	no curated ortholgue & ncbi sequence doesn't exist outside hominini
Human Mouse Chimpanzee Gorilla Rhesus monkey Crab eating macaque Cow Chicken	${ m NP_001243690.1}$		
Mouse Chimpanzee Gorilla Rhesus monkey Crab eating macaque Cow Chicken		248	forms a long branch withing the tree, doesn't hit with MSA
Chimpanzee Gorilla Rhesus monkey Crab eating macaque Cow Clicken	$XP_{-}017173880.1$	248	forms a long branch withing the tree, doesn't fit with MSA
Gorilla Rhesus monkey Crab eating macaque Cow Chicken	$XP_{-}009437822.1$	248	forms a long branch withing the tree, doesn't fit with MSA
Rhesus monkey Crab eating macaque Cow Chicken	XP_004064786.1	248	forms a long branch withing the tree, doesn't fit with MSA
Crab eating macaque Cow	$XP_{-}028697796.1$	248	forms a long branch withing the tree, doesn't fit with MSA
Cow Chicken	XP_005594464.1	248	forms a long branch withing the tree, doesn't fit with MSA
Chicken	XP024844163.1	310	doesn't fit with any and is not a proper orthogue
	XP004940708.1	407	no curated ortholgue & ncbi sequence doesn't exist outside fowls
5-HTR2C X2 5-HTR2C XP_0215	XP_021261788.1	407	no curated ortholgue & ncbi sequence doesn't exist outside fowls
5-HTR5A Marmoset XP_035	XP_035110188.1	357	Low-quality
5-HTR5B Pig XP_0019	$XP_{-}001927463.1$	369	Low quality
5-HTR5B Sheep XP_0278	$XP_{-}027819769.1$	369	Low quality
5-HTR6 Rabbit XP_008'	$XP_{-}008264027.1$	344	Low quality
5-HTR7 isoform 4 Mouse NP_001;	$NP_{-}001347226.1$	269	Orthologues not found in other species
5-HTR7 isoform 5 Mouse NP_001:	$NP_001347229.1$	247	Orthologues not found in other species