

Table 1: Removed sequences

Receptor	Species	Accession	Length	Reason for removal
5-HTR1F	Pig	XP_005670343.2	366	just a point mutation of the curated NP_999266.1
5-HTR2A X1	Pig	XP_013835971.2	470	just a point mutation of the curated NP_999382.1
5-HTR2B isoform 2	Human	NP_001307687.1	439	no curated orthologue & ncbi sequence doesn't exist outside primates
5-HTR2B X3	Chimpanzee	XP_016806173.1	439	no curated orthologue & ncbi sequence doesn't exist outside primates
5-HTR2B X2	Gorilla	XP_018877825.1	439	no curated orthologue & ncbi sequence doesn't exist outside primates
5-HTR2B X2	Rhesus monkey	XP_028687039.1	414	no curated orthologue & ncbi sequence doesn't exist outside primates
5-HTR2B X2	White tufted marmoset	XP_008997935.1	414	no curated orthologue & ncbi sequence doesn't exist outside primates
5-HTR2B X2	Gray mouse lemur	XP_012604842.1	386	no curated orthologue & ncbi sequence doesn't exist outside primates
5-HTR2B X2	Sheep	XP_012003889.1	439	no curated orthologue & ncbi sequence doesn't exist outside primates
5-HTR2B X2	Pig	XP_013840017.1	440	no curated orthologue & ncbi sequence doesn't exist outside primates
5-HTR2B X2	Rabbit	XP_008257523.1	436	no curated orthologue & ncbi sequence doesn't exist outside primates
5-HTR2B X1	Human	XP_006712545.1	456	no curated orthologue & ncbi sequence doesn't exist outside hominini
5-HTR2B X2	Chimpanzee	XP_016806172.1	456	no curated orthologue & ncbi sequence doesn't exist outside hominini
5-HTR2C isoform b	Human	NP_001243690.1	248	forms a long branch withing the tree, doesn't fit with MSA
5-HTR2C X1	Mouse	XP_017173880.1	248	forms a long branch withing the tree, doesn't fit with MSA
5-HTR2C X2	Chimpanzee	XP_009437822.1	248	forms a long branch withing the tree, doesn't fit with MSA
5-HTR2C X2	Gorilla	XP_004064786.1	248	forms a long branch withing the tree, doesn't fit with MSA
5-HTR2C X2	Rhesus monkey	XP_028697796.1	248	forms a long branch withing the tree, doesn't fit with MSA
5-HTR2C X2	Crab eating macaque	XP_005594464.1	248	forms a long branch withing the tree, doesn't fit with MSA
5-HTR2C	Cow	XP_024844163.1	310	doesn't fit with any and is not a proper orthogue
5-HTR2C X2	Chicken	XP_004940708.1	407	no curated orthologue & ncbi sequence doesn't exist outside fowls
5-HTR2C X2	5-HTR2C	XP_021261788.1	407	no curated orthologue & ncbi sequence doesn't exist outside fowls
5-HTR5A	Marmoset	XP_035110188.1	357	Low-quality
5-HTR5B	Pig	XP_001927463.1	369	Low quality
5-HTR5B	Sheep	XP_027819769.1	369	Low quality
5-HTR6	Rabbit	XP_008264027.1	344	Low quality
5-HTR7 isoform 4	Mouse	NP_001347226.1	269	Orthologues not found in other species
5-HTR7 isoform 5	Mouse	NP_001347229.1	247	Orthologues not found in other species