

Supplementary Materials

Human	A	G	A	A	A	G	A	G	T	A	A	G	T
		R ₂₆₁			K ₂₆₂		I ₂₆₃	G	T	A	A	G	T
Chimp		R			K		I	G	T	A	A	G	T
Gorilla		R			K		I	G	T	A	A	G	T
Orangutan		R			K		I	G	T	A	A	G	T
Gibbon		R			K		I	G	T	A	A	G	T
Rhesus		R			K		I	G	T	A	A	G	T
Crab-eating macaque		R			K		I	G	T	A	A	G	T
Baboon		R			K		I	G	T	A	A	G	T
Green monkey		R			K		I	G	T	A	A	G	T
Marmoset		R			K		I	G	T	A	A	G	T
Squirrel monkey		R			K		I	G	T	A	A	G	T
Bushbaby		R			K		M	G	T	A	A	G	T
Chinese tree shrew		R			K		M	G	T	A	A	G	T
Squirrel		R			K		M	G	T	A	A	G	T
Lesser Egyptian jerboa		R			K		M	G	T	A	A	G	T
Prairie vole		R			K		M	G	T	A	A	G	T
Chinese hamster		R			K		M	G	T	A	A	G	T
Mouse		R			K		M	G	T	A	A	G	C
Rat		R			K		M	G	T	A	A	G	C
Naked mole-rat		K			K		M	G	T	A	A	G	T
Guinea pig		R			K		M	G	T	A	A	G	T
Chinchilla		R			K		M	G	T	A	A	G	T
Brush tailed rat		R			R		M	G	T	A	A	G	T
Rabbit		R			K		M	G	T	A	A	G	T
Pika		K			K		V	G	T	A	A	G	T
Pig		R			K		M	G	T	A	A	G	T
Alpaca		R			K		M	G	T	A	A	G	T
Bactrian camel		R			K		M	G	T	A	A	G	T
Dolphin		R			K		M	G	T	A	A	G	T
Killer whale		R			K		M	G	T	A	A	G	T
Tibetan antelope		R			K		L	G	T	A	A	G	T
Cow		R			K		M	G	T	A	A	G	T
Sheep		R			K		L	G	T	A	A	G	T
Domestic goat		R			K		L	G	T	A	A	G	T
Horse		R			K		M	G	T	A	A	G	T
White rhinoceros		R			R		M	G	T	A	A	G	T
Cat		R			K		M	G	T	A	A	G	T
Dog		R			K		M	G	T	A	A	G	T
Ferret		R			K		M	G	T	A	A	G	T
Panda		R			K		M	G	T	A	A	G	T
Pacific walrus		R			K		M	G	T	A	A	G	T
Weddell seal		R			K		M	G	T	A	A	G	T
Black flying-fox		R			K		M	G	T	A	A	G	T
Megabat		R			K		M	G	T	A	A	G	T
David's myotis (bat)		K			K		M	G	T	A	A	G	T
Microbat		K			K		M	G	T	A	A	G	T
Big brown bat		R			K		M	G	T	A	A	G	T
Hedgehog		R			K		L	G	T	G	A	G	T
Shrew		~			K		M	G	T	A	A	G	T
Star-nosed mole		R			K		I	G	T	A	A	G	T
Elephant		R			K		T	G	T	A	A	G	T
Cape elephant shrew		R			K		M	G	T	A	A	G	T
Manatee		R			K		M	G	T	A	A	G	T
Cape golden mole		R			R		M	G	T	A	A	G	T
Tenrec		R			K		M	G	T	A	A	G	T
Aardvark		R			K		T	G	T	A	A	G	T
Armadillo		R			K		M	G	T	A	A	G	T
Opossum		R			K		M	G	T	A	A	G	T
Tasmanian devil		~			R		M	G	T	A	A	G	T
Wallaby		K			R		M	G	T	A	A	G	T
Platypus		R			K		M	G	T	A	A	G	T

Supplementary Figure 1: Sequence alignment of the exon-intron junction illustrating conservations of splice-donor site of intron 3 of *RP1*. The c.787+1G shown in red are fully conserved in *RP1* orthologs.