

Supplemental Table S2 - Gene Structure of RIT1 and RIT2

The initiation ATG is located in exon 2 of human and mouse *Rit1*; it is in exon 1 of *Rit2* in both species. To compare the genomic organization, ATG-containing exons, exon 2 for *Rit1* and exon 1 for *Rit2*, are laid on the same row, and all other exons and introns are arranged accordingly.

Human <i>RIT1</i>				Human <i>RIT2</i>			
Exon	Size of coding region	Intron	Size of intron	Exon	Size of coding region	Intron	Size of intron
1		1	438 bp				
2	ATG - 106 bp	2	149 bp	1	ATG - 103 bp	1	81.6 kb
3	57 bp	3	5.6 kb	2	57 bp	2	59.7 kb
4	74 bp	4	228 bp	3	74 bp	3	50.3 kb
5	192 bp	5	3.7 kb	4	192 bp	4	179.9 kb
6	228 bp - TGA			5	225 bp - TGA		
Total gene size		11 kb		Total gene size		372 kb	

Mouse <i>Rit1</i>				Mouse <i>Rit2</i>			
Exon	Size of coding region	Intron	Size of intron	Exon	Size of coding region	Intron	Size of intron
1		1	368 bp				
2	ATG - 106 bp	2	131 bp	1	ATG - 103 bp	1	72.7 kb
3	57 bp	3	8.3 kb	2	57 bp	2	30.5 kb
4	74 bp	4	211 bp	3	74 bp	3	58.8 kb
5	192 bp	5	2.6 kb	4	192 bp	4	177.9 kb
6	228 bp - TGA			5	225 bp - TGA		
Total gene size		13 kb		Total gene size		342 kb	