

Supplementary Material: Table S2

Table S2: Number and distribution of pathogenic variants (reported in literature, reported in Ensemble and gnomAD databases and total) per exon or intron of each MADD-related gene

Gene	Status	Number of pathogenic variants															Intron									
		Exon													Intron											
		1	2	3	4	5	6	7	8	9	10	11	12	13	1	2	3	4	5	6	7	8	9	10	11	12
<i>ETFA</i>	Literature	2	3	2	3	4	6	3	0	5	3	3	0	0	0	0	0	0	1	1	0	0	0	0	0	
	Databases	0	1	1	0	1	0	0	1	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Total	2	4	3	3	5	6	3	1	9	5	4	0	0	0	0	0	0	1	1	0	0	0	0	0	
<i>ETFB</i>	Literature	2	5	1	2	4	1							0	1	0	1	2	0							
	Databases	3	1	3	1	5	1							0	0	0	0	0	0	0						
	Total	5	6	4	3	9	2							0	1	0	1	2	0							
<i>ETFDH</i>	Literature*	3	20	33	10	14	7	16	16	21	22	29	22	27	2	2	4	2	3	2	3	0	1	2	2	0
	Databases	0	0	4	1	4	0	3	8	5	2	6	10	5	0	0	0	0	0	0	0	0	0	0	0	
	Total	3	20	37	11	18	7	19	24	26	24	35	32	32	2	2	4	2	3	2	3	0	1	2	2	0
<i>FLAD1</i>	Literature	1	9	0	0	1	1	0							0	0	0	0	1	0	0					
	Databases	3	6	5	0	5	3	1							0	0	0	0	0	0	0					
	Total	4	15	5	0	6	4	1							0	0	0	0	1	0	0					
<i>SLC25A32</i>	Literature*	0	0	0	2	0	0	0							0	0	0	0	0	0	0					
	Databases	5	3	2	5	1	9	3							0	0	0	0	0	0	0					
	Total	5	3	2	7	1	9	3							0	0	0	0	0	0	0					
<i>SLC52A1</i>	Literature*	0	0	0	0	0	0								0	0	0	1	0							
	Databases	0	0	0	0	0	0								0	0	0	0	0							
	Total	0	0	0	0	0	0								0	0	0	1	0							
<i>SLC52A2</i>	Literature	1	4	19	4	0									0	0	0	0	0							
	Databases	2	2	5	2	0									0	0	0	0	0							
	Total	3	6	24	6	0									0	0	0	0	0							
<i>SLC52A3</i>	Literature*	0	21	10	7	12									0	0	0	1	0							
	Databases	0	4	7	1	12									0	0	0	0	0							
	Total	0	25	17	8	24									0	0	0	1	0							

* Variants that are located in the 5'UTR and 3'UTR or not restricted to a single exon/intron have been omitted from Table S2. This includes c.-75A>G, c.1989A>C, exon 1-5del, exon 1-7del and exon 7-8del in *ETFDH*, c.-264_31delins(14) in *SLC25A32*, the 1.9kb deletion spanning exons 2 and 3 of *SLC52A1* and c.1555C>T in *SLC52A3*; Bold values signify the exon and intron containing the largest number of variants per gene.