

Table S4. Positivity per gene for familial and sporadic patients. Relevant aspects cited in the text are highlighted in grey.

Patients	Panel Gene	Total Variants	Total (%)	AUTOIMMUNE POLYENDOCRINE SYNDROME (APS)												NON-APS		TOTAL	
				APS1*	APS2*	(Graves)	(Hashimoto)	APS3A	(gNET)	(CAG)	APS3C	APS3D	non-gastric**	DM2	Autoinfl.				
				N (%)	N (%)	N (%)	N (%)	N (%)	N (%)	N (%)	N (%)	N (%)	N (%)	N (%)	N (%)	N (%)	N (%)	N (%)	N (%)
Familial	SLC26A9	14	25.5	1 33.3	0 0.0	2 25.0	10 25.0	2 33.3	2 15.4	9 25.7	7 38.9	2 16.7	3 30.0	5 50.0	3 30.0			43	27.6
	SLC9A4	2	3.6	0 0.0	0 0.0	2 25.0	0 0.0	0 0.0	0 0.0	2 5.7	0 0.0	0 0.0	0 0.0	2 20.0	0 0.0			6	3.8
	SLC9A2	1	1.8	0 0.0	0 0.0	0 0.0	1 2.5	0 0.0	0 0.0	1 2.9	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0			2	1.3
	PTH1R	6	10.9	0 0.0	0 0.0	2 25.0	4 10.0	1 16.7	1 7.7	4 11.4	2 11.1	2 16.7	1 10.0	0 0.0	1 10.0			17	10.9
	PTH2R	4	7.3	1 33.3	0 0.0	0 0.0	3 7.5	0 0.0	1 7.7	3 8.6	1 5.6	2 16.7	0 0.0	0 0.0	1 10.0			12	7.7
	SLC4A2	5	9.1	1 33.3	0 0.0	0 0.0	5 12.5	0 0.0	2 15.4	3 8.6	0 0.0	1 8.3	0 0.0	1 10.0	1 10.0			14	9.0
	SLC26A7	8	14.5	0 0.0	0 0.0	1 12.5	6 15.0	1 16.7	0 0.0	6 17.1	5 27.8	2 16.7	2 20.0	0 0.0	1 10.0			22	14.1
	KCNQ1	2	3.6	0 0.0	0 0.0	1 12.5	1 2.5	0 0.0	0 0.0	2 5.7	0 0.0	0 0.0	0 0.0	0 0.0	1 10.0			5	3.2
	ATP4A	13	23.6	0 0.0	1 100.0	0 0.0	10 25.0	2 33.3	7 53.8	5 14.3	3 16.7	3 25.0	1 10.0	2 20.0	2 20.0			35	22.4
	TOTAL	55		3 1.9	1 0.6	8 5.1	40 25.6	6 3.8	13 8.3	35 22.4	18 11.5	12 7.7	7	10 6.4	10 6.4			156	
Sporadic	SLC26A9	2	20.0	0 0.0	1 100.0	1 33.3	2 28.6	1 33.3	0 0.0	2 20.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0			7	26.9
	SLC9A4	0	0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0			0	0.0
	SLC9A2	0	0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0			0	0.0
	PTH1R	2	20.0	0 0.0	0 0.0	1 33.3	1 14.3	1 33.3	0 0.0	2 20.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0			5	19.2
	PTH2R	1	10.0	0 0.0	0 0.0	0 0.0	1 14.3	0 0.0	0 0.0	1 10.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0			2	7.7
	SLC4A2	1	10.0	0 0.0	0 0.0	1 33.3	0 0.0	0 0.0	0 0.0	1 10.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0			2	7.7
	SLC26A7	3	30.0	0 0.0	0 0.0	0 0.0	2 28.6	0 0.0	2 100.0	3 30.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0			7	26.9
	KCNQ1	0	0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0			0	0.0
	ATP4A	1	10.0	0 0.0	0 0.0	0 0.0	1 14.3	1 33.3	0 0.0	1 10.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0			3	11.5
	TOTAL	10		0 0.0	1 3.8	3 11.5	7 26.9	3 11.5	2 7.7	10 38.5	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0			26	

P: Positivity; NA: not applicable

*APS1 and APS2 are presented but not considered for discussion due to the low number of patients

**Associations of non-gastric patients were not considered for the total associations.