Supplementary Table S1. Carrier status of variants qualified as likely pathogenic or pathogenic present on the GSA v1 or v3 chips identified in GSA the Romanian cohorts evaluated. The reported numbers reflect heterozygous individuals/allele counts.

Chr:Pos (GRCh37)	Identifier rs (dbSNPv154) NM (GJB2)	ClinVar	GSAv1 Cluj *n*=416	GSAv3 Craiova *n*=472	AF 1000G EUR
13:20763039	rs111033327				
	NM_004004.6:c.*1C>T	Uncertain significance	NA	0	0.001
13:20763071	rs587783647				
	NM_004004.6:c.647_650del	Pathogenic/Likely pathogenic	0	0	-
	p.Arg216fs				
13:20763088	rs587783646				
	NM_004004.6:c.632_633del	Pathogenic/Likely pathogenic	0	0	-
	NM_004004.6:c.632_633delGT				
	p.Cys211fs				
13:20763104	rs111033294				
	NM_004004.6:c.617A>G	Pathogenic/Likely pathogenic	0	0	-
	p.Asn206Ser				
13:20763113	rs76838169				
	NM_004004.6:c.608T>C	Benign	0	0	0
	p.Ile203Thr				
13:20763121	rs111033335				
	NM_004004.6:c.592_600 delinsCAGTGTTCATGACATTC	Pathogenic/Likely pathogenic	0	0	-
	p.Val198_Gly200delinsGlnCysSerTer				
13:20763123	rs786204597				
	NM_004004.6:c.598G>A	Pathogenic/Likely pathogenic	NA	0	-
	p.Gly200Arg				
	NM_004004.6:c.598G>T	Likely pathogenic	NA	0	-
	p.Gly200Ter				
13:20763170	rs80338950				
	NM_004004.6:c.551G>A	Pathogenic/Likely pathogenic	0	0	-
	p.Arg184Gln				
	NM_004004.6:c.551G>C	Pathogenic	0	0	-
	p.Arg184Pro				
13:20763186	rs28931595				

	NM_004004.6:c.535G>C p.Asp179His	Uncertain significance	0	0	-
	NM_004004.6:c.535G>A p.Asp179Asn	Pathogenic	0	0	-
13:20763222	rs111033360				
	NM_004004.6:c.499G>A p.Val167Met	Uncertain significance	0	0	0
13:20763228	rs376898963				
	NM_004004.6:c.493C>T p.Arg165Trp	Uncertain significance	NA	0	0
13:20763234	rs80338949				
	NM_004004.6:c.487A>C p.Met163Leu	Uncertain significance	0	0	-
	NM_004004.6:c.487A>G p.Met163Val	Uncertain significance	2/416	0	0
13:20763243	rs34988750				
	NM_004004.6:c.478G>A p.Gly160Ser	Uncertain significance	1/416	1/472	0
13:20763256	rs772264564				
	NM_004004.6:c.465T>A p.Tyr155Ter	Pathogenic	0	0	-
13:20763265	rs111033420				
	NM_004004.6:c.456C>T p.Tyr152=	Likely benign	0	0	-
	NM_004004.6:c.456C>A p.Tyr152Ter	Pathogenic/Likely pathogenic	0	0	-
13:20763293	rs104894401				
	NM_004004.6:c.428G>A p.Arg143Gln	Pathogenic/Likely pathogenic	NA	0	-
13:20763294	rs80338948				
	NM_004004.6:c.427C>T p.Arg143Trp	Pathogenic	0	0	0
13:20763295	rs397516877				
	NM_004004.6:c.426C>A p.Phe142Leu	Pathogenic	0	0	-
13:20763296	rs116769964				
	NM_004004.6:c.425T>C p.Phe142Ser	Uncertain significance	0	0	0
13:20763305	rs76434661				

	NM_004004.6:c.416G>A p.Ser139Asn	Pathogenic	0	0	0.001
13:20763313	rs786204690 NM_004004.6:c.408C>A p.Tyr136Ter	Pathogenic/Likely pathogenic	NA	0	-
	NM_004004.5:c.[134G>A;408C>A]	Pathogenic	NA	0	
13:20763332	rs779018464 NM_004004.6:c.389G>C p.Gly130Ala	Likely pathogenic	NA	0	-
13:20763351	rs397516874 NM_004004.6:c.370C>T p.Gln124Ter	Pathogenic	0	0	0
13:20763356	rs111033295 NM_004004.6:c.365A>T p.Lys122Ile	Pathogenic/Likely pathogenic	0	0	-
13:20763361	rs80338947 NM_004004.6:c.355GAG p.Glu120del	Pathogenic	0	0	-
13:20763366	rs150529554 NM_004004.6:c.355G>T p.Glu119Ter	Pathogenic/Likely pathogenic	NA	0	-
	NM_004004.6:c.355G>A p.Glu119Lys	Uncertain significance	NA	0	0.001
13:20763371	rs111033441 NM_004004.6:c.350A>G p.Asp117Gly	Uncertain significance	0	0	-
13:20763380	rs2274083 NM_004004.6:c.341A>G p.Glu114Gly	Benign	NA	0	0
	NM_004004.5:c.[79G>A;341A>G]	Benign/Likely benign	NA	0	
13:20763382	rs80338946 NM_004004.6:c.339T>G p.Ser113Arg	Uncertain significance	NA	0	-
13:20763394	rs797045596 NM_004004.6:c.314_329del p.Lys105fs	Pathogenic	0	0	-
13:20763395	**rs111033253** **NM_004004.6:c.313_326del** **p.Lys105fs**	**Pathogenic/Likely pathogenic**	0	1/472	-

13:20763421	rs111033204 NM_004004.6:c.299_300del p.His100fs	Pathogenic	0	0	-
13:20763423	rs143343083 NM_004004.6:c.298C>T p.His100Tyr	Pathogenic/Likely pathogenic	0	0	-
13:20763438	rs111033299 NM_004004.6:c.283G>A p.Val95Met	Pathogenic/Likely pathogenic	0	0	0
13:20763452	**rs80338945** **NM_004004.6:c.269T>C** **p.Leu90Pro**	**Pathogenic**	NA	1/472	-
13:20763471	rs104894409 NM_004004.6:c.250G>T p.Val84Leu	Pathogenic	NA	0	-
	NM_004004.6:c.250G>A p.Val84Met	Pathogenic	NA	0	-
	NM_004004.6:c.250G>C p.Val84Leu	Pathogenic	NA	0	-
13:20763482	rs727504302 NM_004004.6:c.239A>C p.Gln80Pro	Pathogenic/Likely pathogenic	0	0	-
13:20763486	rs80338943 NM_004004.6:c.235del p.Leu79fs	Pathogenic	0	0	0
13:20763490	rs80338944 NM_004004.6:c.231G>A p.Trp77Ter	Pathogenic	0	0	0
13:20763491	rs104894395 NM_004004.6:c.230G>A p.Trp77Ter	Pathogenic/Likely pathogenic	NA	0	-
13:20763492	rs104894397 NM_004004.6:c.229T>C p.Trp77Arg	Pathogenic	NA	0	-
13:20763494	rs111033361 NM_004004.6:c.227T>C p.Leu76Pro	Likely pathogenic	0	0	-
13:20763497	rs28931593 NM_004004.6:c.224G>A	Pathogenic	0	0	-

	p.Arg75Gln				
13:20763498	rs104894402				
	NM_004004.6:c.223C>G p.Arg75Gly	Likely pathogenic	0	0	-
	NM_004004.6:c.223C>T p.Arg75Trp	Pathogenic	0	0	-
13:20763545	rs104894404				
	NM_004004.6:c.176G>A p.Gly59Asp	Likely pathogenic	0	0	-
	NM_004004.6:c.176G>C p.Gly59Ala	Pathogenic	0	0	-
13:20763552	rs111033297				
	NM_004004.6:c.169C>T p.Gln57Ter	Pathogenic	0	0	-
13:20763554	rs80338942				
	NM_004004.6:c.167del p.Leu56fs	Pathogenic	NA	0	-
13:20763563	rs587783645				
	NM_004004.6:c.158G>T p.Cys53Phe	Likely pathogenic	0	0	-
	NM_004004.6:c.158G>A p.Cys53Tyr	Pathogenic	0	0	-
13:20763573	rs28931594				
	NM_004004.6:c.148G>T p.Asp50Tyr	Pathogenic	0	0	-
	NM_004004.6:c.148G>A p.Asp50Asn	Pathogenic	0	0	-
13:20763582	rs104894398				
	NM_004004.6:c.139G>T p.Glu47Ter	Pathogenic	0	0	-
13:20763587	rs72561723				
	NM_004004.5:c.[134G>A;408C>A]	Pathogenic	0	0	-
	NM_004004.6:c.134G>A p.Gly45Glu	Pathogenic/Likely pathogenic	0	0	
13:20763589	rs104894407				
	NM_004004.6:c.132G>A p.Trp44Ter	Pathogenic	0	0	0
	NM_004004.6:c.132G>C p.Trp44Cys	Pathogenic	0	0	-

13:20763590	rs104894413				
	NM_004004.6:c.131G>A p.Trp44Ter	Pathogenic/Likely pathogenic	0	0	-
	NM_004004.6:c.131G>C p.Trp44Ser	Pathogenic	0	0	-
13:20763601	rs561870637				
	NM_004004.6:c.120A>C p.Ala40=	Likely benign	NA	0	0.003
13:20763602	rs111033296				
	NM_004004.6:c.119C>G p.Ala40Gly	Likely pathogenic	0	0	-
	NM_004004.6:c.119C>A p.Ala40Glu	Likely pathogenic	0	0	-
13:20763612	**rs72474224**				
	NM_004004.6:c.109G>T p.Val37Phe	**Likely pathogenic**	0	0	-
	NM_004004.6:c.109G>A p.Val37Ile	**Pathogenic**	3/416	1/472	0
13:20763614	rs587783644				
	NM_004004.6:c.107T>C p.Leu36Pro	Uncertain significance	0	0	-
13:20763620	**rs35887622**				
	NM_004004.6:c.101T>G p.Met34Arg	**Likely pathogenic**	0	0	-
	NM_004004.6:c.101T>C p.Met34Thr	**Pathogenic**	5/416	5/472	0.0209
13:20763626	rs111033190				
	NM_004004.6:c.95G>T p.Arg32Leu	Pathogenic/Likely pathogenic	0	0	-
	NM_004004.6:c.95G>A p.Arg32His	Pathogenic	0	0	-
13:20763627	rs371024165				
	NM_004004.6:c.94C>A p.Arg32Ser	Pathogenic/Likely pathogenic	NA	0	-
	NM_004004.6:c.94C>T p.Arg32Cys	Pathogenic	NA	0	-
13:20763642	rs2274084				
	NM_004004.5:c.[79G>A;341A>G]	Benign/Likely benign	0	0	0
	NM_004004.6:c.79G>A	Benign	4/416	7/472	

	p.Val27Ile				
13:20763650	rs104894396				
	NM_004004.6:c.71G>A p.Trp24Ter	Pathogenic	2/416	0	0
13:20763677	rs111033217				
	NM_004004.6:c.44A>C p.Lys15Thr	Pathogenic/Likely pathogenic	0	0	-
13:20763686	rs1801002				
	NM_004004.6:c.35G>A p.Gly12Asp	Uncertain significance	0	0	-
	NM_004004.6:c.35G>T p.Gly12Val	Pathogenic/Likely pathogenic	0	0	-
13:20763686	**rs80338939**				
	NM_004004.6:c.35del p.Gly12fs	**Pathogenic**	NA	18/472	0.0089
	NM_004004.6:c.35dup p.Val13fs	**Pathogenic**	NA	0	-
13:20763687	rs104894408				
	NM_004004.6:c.34G>T p.Gly12Cys	Likely pathogenic	NA	0	0
	NM_004004.6:c.34G>C p.Gly12Arg	Pathogenic	NA	0	-
13:20763702	rs111033451				
	NM_004004.6:c.19C>T p.Gln7Ter	Pathogenic/Likely pathogenic	0	0	-
13:20763710	rs111033222				
	NM_004004.6:c.11G>A p.Gly4Asp	Likely benign	NA	0	0
13:20763712	rs111033401				
	NM_004004.6:c.9G>T p.Trp3Cys	Uncertain significance	0	0	
	NM_004004.6:c.9G>A p.Trp3Ter	Pathogenic/Likely pathogenic	0	0	-
13:20763720	rs111033293				
	NM_004004.6:c.1A>T p.Met1Leu	Likely pathogenic	0	0	-
	NM_004004.6:c.1A>G p.Met1Val	Pathogenic	0	0	-
13:20764940	rs9552099				

	NM_004004.6):c.-22-1198G>T	not reported	1/416	27+3/472	-
	NM_004004.6):c.-22-1198G>A		0	0	0.828
13:20766921	**rs80338940**				
	NM_004004.6:c.-23+1G>A	**Pathogenic**	0	1/472	-