Supplementary Table 1 Detailed information on genetic variants in patients with Mucopolysaccharidosis type VI

ID	SNP	Nucleotide; protein change found	rsID	Exons of IDS gene/ 8	Type of nucleotide change	Significance	Previously reported	Reference
1	c.1601A > G	p.Ter534Trp	rs1554069655	8	Missense	Pathogenic	Yes	doi: 10.22038/IJBMS.2018.27742.6760
2	c.691-1G > A	-	rs778868348		Splicing substitutions	Likely Pathogenic	Yes	doi: 10.1002/humu.23613
3	c.454C > T	p.Arg152Trp	rs991104525	3	Missense	Pathogenic	Yes	doi: 10.3389/fmolb2021780184
4	c.966G > A	p.Trp322*	rs1554079318	6	Nonsense	Pathogenic	Yes	doi: 10.1002/humu.23613
5	c.194C > T	p.Ser65Phe	rs12333318	2	Missense	VUS	Yes	doi:

			06					10.3389/fmolb2021780184
6	c.304C > G	p.Arg102Gly	rs991104525	1	Missense	Pathogenic	Yes	doi: 10.3389/fmolb2021780184
7	c.797A > C	p.Tyr266Ser	rs1554086402	4	Missense	Pathogenic	Yes	doi: 10.1002/humu.23613
8	c.974G > A	p.Gly325Asp	-	5	Missense	VUS	No	
9	c.943C > T	p.Arg315*	rs891298440	6	Nonsense	Pathogenic	Yes	doi: 10.1002/humu.23613
10	c.237_243delGGTGCTC	p.Val80Trpfs*32	rs1554032134	2	Frameshift mutations	Pathogenic	Yes	doi: 10.1002/humu.23613
11	c.629A > G	p.Tyr210Cys	rs118203943	3	Missense	Pathogenic	Yes	doi: 10.1016/j.omtm.2020.09.004
12	c.1562G > A	p.Cys521Tyr	rs1554069661	8	Missense	Pathogenic	Yes	doi: 10.1002/humu.23613
13	c.533A > G	p.His178Arg	-	3	Missense	VUS	Yes	doi: 10.22038/IJBMS.2018.27742.6760

14	c.262C > T	p.Gln88*	rs1299207831	1	Nonsense	Pathogenic	Yes	doi: 10.1002/humu.23613
15	c.1079T > C	p.Leu360Pro	rs1554079284	5	Missense	Pathogenic	Yes	doi: 10.1002/humu.23613
16	c.743delC	p.Pro248fs	rs431905494	4	Frameshift mutations	Pathogenic	Yes	doi: 10.1002/humu.23613
17	c.785dupA	p.Asn262fs	rs749015246	4	Frameshift mutations	Likely Pathogenic	Yes	doi: 10.1002/humu.23613
18	c.293T > C	p.Leu98Pro	rs1554032090	1	Missense	Pathogenic	Yes	doi: 10.1002/humu.23613
19	c.1131G > T	p.Trp377Cys	-	5	Missense	VUS	No	
20	c.941T > C	p.Leu314Pro	-	5	Missense	VUS	Yes	doi: 10.3389/fmolb2021780184
21	ex5: del2635kb	-	-		Large deletion	Pathogenic	No	
22	c.990_1003del14	-	-		Small deletion	Pathogenic	No	

VUS: variant of unknown significance.