## S5 Table. In silico predictive algorithms used in the study [3].

Category		Basis	Name	Website	Prediction Threshold
Missense prediction		Evolutionary conservation	FATHMM	http://fathmm.biocompute.org.uk	<-1.5 Damaging
					>-1.5 Tolerated
			SIFT	http://sift.jevi.org	<0.05 Deleterious
					>0.05 Tolerated
Missense prediction		Protein structure/function and	Align GVGD	http://agvgd.iarc.fr/agvgd_input.	≥C15 Probably Damaging
		evolutionary conservation		php	
			Mutation	http://www.mutationtaster.org	Disease causing
			Taster		
			Polyphen-2	http://genetics.bwh.harvard.edu/	0.85 to 1 Probably Damage
				pph2	0.15 to 0.85 Possibly
					Damage
Missense	and	Alignment and measurement of	PROVEAN	http://provean.jcvi.org/index.php	<-2.5 Deleterious
insertion/deletions		similarity between variant sequence			>-2.5 Neutral
prediction		and protein sequence homolog			
Missense	and	Contrasts annotations of fixed/nearly	CADD	http://cadd.gs.washington.edu	$\geq$ 20 1% most deleterious
insertion/deletions		fixed derived alleles in humans with			$\geq 30$ 0.1% most
prediction		simulated variants			deleterious

## Supporting Reference

3. Richards S, Aziz N, Bale S, Bick D, Das S, Gastier-Foster J, Grody WW, Hegde M, Lyon E, Spector E, Voelkerding K, Rehm HL. Standards and guidelines for the interpretation of sequence variants: a joint consensus recommendation of the American College of Medical Genetics and Genomics and the association for molecular autopsy. *Genet Med.* 2015; 17: 405–423.