Data	P1	P2	P4	P5
Total number of reads (x2)	39111154	41867264	37556352	41367110
Trimmed reads (x2)	22325405	31637375	18905832	36276744
Reads mapped (x2)	22320244	31616422	18851742	36276174
Percentage mapped	99.08%	99.30%	99.71%	100%
Coverage	74.4	105.4	62.8	120.9
Total variants	359,707	647,936	328,688	534,222
Protein altering variants	12,219	15,304	11,809	12,966
Rare variants (MAF < 5%)	1,552	4,185	2,193	1,602
PID genetic variants (454 gene)	9	9	17	16
Phenotype associated variant	0	0	0	0
Machine Used	HiSeq2500	HiSeq2500	HiSeq2500	NovaSeq6000
Library Used	TruSeq DNA Exome	TruSeq DNA Exome	TruSeq DNA Exome	TruSeq DNA Exome

S1 **Table:** Whole exome sequencing data summary for each patient.