Supplementary table 1- Monogenic inflammatory bowel disease genes

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| **Gene name** | **GenePy score generated?** |
| ADA | Yes |
| ADAM17 | Yes |
| AICDA | Yes |
| ANKZF | Yes |
| ARPC1B  | Yes |
| BTK | Yes |
| CARD9  | Yes |
| CD3y | Yes |
| CD40LG | Yes |
| COL7A1 | Yes |
| CYBA | Yes |
| CYBB | Yes |
| DCLRE1C | Yes |
| DKC1 | Yes |
| DOCK | Yes |
| EPCAM  | Yes |
| FERMT1 | Yes |
| FOXP3  | Yes |
| G6PC3  | Yes |
| GUCY2C  | Yes |
| HPS1  | Yes |
| HPS4  | Yes |
| HPS6  | Yes |
| HSPA1L  | Yes |
| ICOS  | Yes |
| IKBKG  | Yes |
| IL10  | Yes |
| IL10RA | Yes |
| IL10RB | Yes |
| IL21 | Yes |
| IL2RA | Yes |
| IL2RG | Yes |
| ITCH | Yes |
| ITGB2  | Yes |
| LIG4  | Yes |
| LRBA  | Yes |
| MASP2  | Yes |
| MEFV  | Yes |
| MVK  | Yes |
| NCF1  | No\* |
| NCF2  | Yes |
| NCF4  | Yes |
| NOD2 | Yes |
| PIK3CD  | Yes |
| PIK3R1  | Yes |
| PLCG2  | Yes |
| POLA1  | Yes |
| PTEN  | Yes |
| RAG2  | Yes |
| RTEL1 | Yes |
| SH2D1A  | Yes |
| SKIV2L  | Yes |
| SLC37A4  | Yes |
| SLC9A3  | Yes |
| SLCO2A1  | Yes |
| STAT1 | Yes |
| STXBP2  | Yes |
| TGFBR1  | Yes |
| TGFBR2  | Yes |
| TNFAIP3  | Yes |
| TRIM22  | Yes |
| TRNT1  | Yes |
| TTC37  | Yes |
| TTC7A  | Yes |
| WAS  | Yes |
| XIAP  | Yes |
| ZAP70  | Yes |
| ZBTB24  | Yes |

\* Scores were not generated as gene is not represented by one or more exon-enrichment capture kits. GenePy score calculation can be applied only to variants/genes equally covered by all exon-enrichment kit to ensure a fair comparison of individuals.