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.