**Table S3:** Association analysis between non-responders and responders (ACR-Ped70) to MTX, for all SNPs studied

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **SNP** | **Gene** | **CHR** | **Position** | **Minor allele** | **Major allele** | **MAF NR** | **MAF**  **ACR-Ped70** | **P\_allelic** | **OR** | **L95** | **U95** | **P\_trend** |
| rs3853187 | THAP6 | 4 | 76510100 | C | T | 0.44 | 0.52 | 0.20 | 0.71 | 0.42 | 1.20 | 0.22 |
| rs1841934 | THAP6 | 4 | 76650600 | A | G | 0.43 | 0.37 | 0.30 | 1.31 | 0.78 | 2.21 | 0.29 |
| rs2126854 | THAP6 | 4 | 76672173 | A | G | 0.21 | 0.23 | 0.71 | 0.89 | 0.47 | 1.67 | 0.71 |
| rs9307834 | THAP6 | 4 | 76672874 | C | A | 0.35 | 0.40 | 0.49 | 0.83 | 0.49 | 1.41 | 0.47 |
| rs6535523 | THAP6 | 4 | 76681248 | G | A | 0.44 | 0.36 | 0.22 | 1.40 | 0.81 | 2.40 | 0.20 |
| rs12649508 | THAP6 | 4 | 76682113 | T | G | 0.30 | 0.36 | 0.35 | 0.77 | 0.45 | 1.34 | 0.33 |
| rs3132454 | BAT1 | 6 | 31597623 | C | T | 0.38 | 0.32 | 0.34 | 1.29 | 0.76 | 2.20 | 0.36 |
| rs9267464 | BAT1 | 6 | 31598625 | T | C | 0.04 | 0.06 | 0.58 | 0.71 | 0.21 | 2.42 | 0.57 |
| rs3093993 | BAT1 | 6 | 31598704 | G | T | 0.20 | 0.19 | 0.97 | 1.01 | 0.53 | 1.92 | 0.97 |
| rs3093992 | BAT1 | 6 | 31599110 | G | T | 0.20 | 0.19 | 0.97 | 1.01 | 0.53 | 1.92 | 0.97 |
| rs3093988 | BAT1 | 6 | 31600432 | T | C | 0.19 | 0.17 | 0.69 | 1.15 | 0.59 | 2.22 | 0.69 |
| rs2734574 | BAT1 | 6 | 31601867 | T | A | 0.42 | 0.49 | 0.32 | 0.77 | 0.46 | 1.28 | 0.33 |
| rs2259435 | BAT1 | 6 | 31604894 | T | C | 0.20 | 0.18 | 0.76 | 1.11 | 0.58 | 2.12 | 0.77 |
| rs3130055 | BAT1 | 6 | 31605378 | C | T | 0.22 | 0.21 | 0.89 | 1.05 | 0.56 | 1.94 | 0.89 |
| rs3219190 | BAT1 | 6 | 31605954 | G | A | 0.13 | 0.14 | 0.85 | 0.93 | 0.42 | 2.03 | 0.84 |
| rs2734583 | BAT1 | 6 | 31613459 | C | T | 0.13 | 0.12 | 0.82 | 1.09 | 0.50 | 2.36 | 0.83 |
| rs2239709 | BAT1 | 6 | 31615426 | A | G | 0.07 | 0.07 | 0.98 | 0.99 | 0.36 | 2.69 | 0.98 |
| rs2844509 | BAT1 | 6 | 31618903 | C | T | 0.24 | 0.17 | 0.23 | 1.47 | 0.78 | 2.75 | 0.25 |
| rs2239705 | BAT1 | 6 | 31621381 | T | C | 0.18 | 0.11 | 0.14 | 1.71 | 0.83 | 3.55 | 0.17 |
| rs2071591 | BAT1 | 6 | 31623778 | T | C | 0.36 | 0.44 | 0.27 | 0.74 | 0.44 | 1.27 | 0.28 |
| rs2523500 | BAT1 | 6 | 31626333 | C | T | 0.32 | 0.25 | 0.21 | 1.44 | 0.82 | 2.51 | 0.23 |
| rs6916921 | BAT1 | 6 | 31628405 | T | C | 0.11 | 0.08 | 0.39 | 1.46 | 0.61 | 3.51 | 0.42 |
| rs6929796 | BAT1 | 6 | 31630648 | A | G | 0.19 | 0.25 | 0.24 | 0.69 | 0.37 | 1.28 | 0.25 |
| rs11008463 | ZEB1 | 10 | 31669807 | G | A | 0.10 | 0.04 | 0.08 | 2.50 | 0.88 | 7.12 | 0.09 |
| rs2839657 | ZEB1 | 10 | 31695774 | T | C | 0.48 | 0.50 | 0.75 | 0.92 | 0.55 | 1.55 | 0.75 |
| rs172683 | ZEB1 | 10 | 31846015 | C | T | 0.08 | 0.03 | 0.13 | 2.37 | 0.75 | 7.45 | 0.15 |
| rs600231 | MALAT1 | 11 | 65017222 | G | A | 0.28 | 0.37 | 0.17 | 0.68 | 0.39 | 1.18 | 0.13 |
| rs3200401 | MALAT1 | 11 | 65028408 | T | C | 0.21 | 0.25 | 0.53 | 0.82 | 0.44 | 1.53 | 0.48 |
| rs17122830 | SLC16A7 | 12 | 58359507 | G | A | 0.07 | 0.06 | 0.85 | 1.11 | 0.40 | 3.07 | 0.84 |
| rs1497474 | SLC16A7 | 12 | 58360056 | T | C | 0.27 | 0.27 | 0.98 | 0.99 | 0.56 | 1.77 | 0.98 |
| rs10877327 | SLC16A7 | 12 | 58360452 | T | G | 0.15 | 0.13 | 0.62 | 1.21 | 0.58 | 2.52 | 0.64 |
| rs7976956 | SLC16A7 | 12 | 58365097 | A | G | 0.25 | 0.23 | 0.72 | 1.12 | 0.61 | 2.03 | 0.73 |
| rs1000708 | SLC16A7 | 12 | 58369755 | G | A | 0.41 | 0.48 | 0.30 | 0.75 | 0.44 | 1.29 | 0.25 |
| rs7971953 | SLC16A7 | 12 | 58376474 | C | G | 0.20 | 0.26 | 0.29 | 0.70 | 0.37 | 1.35 | 0.28 |
| rs12231740 | SLC16A7 | 12 | 58390307 | T | C | 0.38 | 0.28 | 0.08 | 1.61 | 0.94 | 2.76 | 0.07 |
| rs2711669 | SLC16A7 | 12 | 58415239 | T | C | 0.09 | 0.07 | 0.45 | 1.45 | 0.55 | 3.80 | 0.43 |
| rs2706301 | SLC16A7 | 12 | 58421669 | C | G | 0.38 | 0.44 | 0.40 | 0.79 | 0.46 | 1.36 | 0.36 |
| **rs10877333** | **SLC16A7** | **12** | **58442313** | **G** | **T** | **0.12** | **0.22** | **0.04** | **0.48** | **0.23** | **0.98** | **0.03** |
| **rs2711655** | **SLC16A7** | **12** | **58452688** | **G** | **A** | **0.50** | **0.35** | **0.02** | **1.84** | **1.10** | **3.09** | **0.02** |
| rs12718000 | SLC16A7 | 12 | 58455532 | A | G | 0.09 | 0.09 | 0.85 | 0.91 | 0.36 | 2.33 | 0.84 |
| **rs3763980** | **SLC16A7** | **12** | **58459623** | **A** | **T** | **0.36** | **0.23** | **0.02** | **1.96** | **1.11** | **3.44** | **0.02** |
| rs10784000 | SLC16A7 | 12 | 58467231 | G | A | 0.28 | 0.28 | 0.99 | 1.00 | 0.57 | 1.75 | 0.99 |
| rs12931589 | NFATC2IP | 16 | 28886798 | T | G | 0.33 | 0.35 | 0.74 | 0.91 | 0.53 | 1.56 | 0.73 |
| rs11150675 | NFATC2IP | 16 | 28888032 | A | G | 0.24 | 0.32 | 0.15 | 0.66 | 0.37 | 1.17 | 0.16 |
| rs7192056 | NFATC2IP | 16 | 28889012 | G | C | 0.39 | 0.35 | 0.48 | 1.21 | 0.71 | 2.07 | 0.46 |

CHR=chromosome, MAF= minor allele, NR=non-responder, ACRped70= improvements of 70 % in at least 3 of the COVs with no more than 1 of the remaining variables worsening by >30%.

significantly associated SNPs (p<0.05) in bold