**Supplementary Information**

Association between rs12037447, rs146732504, rs151078858, rs55723436 and rs6094136 polymorphisms and Kawasaki disease in the population of Polish children

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**Suplementary Table 2**. SIFT prediction results

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| SNP | CHR/POS | REF/ALT ALLELE | AMINO ACID CHANGE | GENE NAME | GENE\_ID | TRANSCRIPT ID | PROTEIN ID | REGION | SIFT SCORE | SIFT MEDIAN | NO OF SEQS AT POSITION | SIFT PREDICTION |
| rs146732504 | 6:168434704 | C/A | L9I | KIF25 | ENSG00000125337 | ENST00000496008 | ENSP00000427464 | CDS |  |  |  |  |
| rs146732504 | 6:168434704 | C/A | L104I | KIF25 | ENSG00000125337 | ENST00000354419 | ENSP00000346401 | CDS | 0.012 | 2.62 | 39 | DELETERIOUS |
| rs146732504 | 6:168434704 | C/A | L104I | KIF25 | ENSG00000125337 | ENST00000443060 | ENSP00000388878 | CDS | 0.012 | 2.62 | 39 | DELETERIOUS |
| rs146732504 | 6:168434704 | C/A | L104I | KIF25 | ENSG00000125337 | ENST00000351261 | ENSP00000252688 | CDS | 0.094 | 2.5 | 33 | TOLERATED |
| rs151078858 | 11:48177395 | C/T | T1091M | PTPRJ | ENSG00000149177 | ENST00000418331 | ENSP00000400010 | CDS | 0.035 | 2.52 | 37 | DELETERIOUS |
| rs55723436 | 22:24718408 | G/A | R487H | SPECC1L | ENSG00000100014 | ENST00000541492 | ENSP00000439633 | CDS | 0.019 | 2.61 | 26 | DELETERIOUS |
| rs55723436 | 22:24718408 | G/A | R487H | SPECC1L | ENSG00000100014 | ENST00000314328 | ENSP00000325785 | CDS | 0.064 | 2.56 | 26 | TOLERATED |
| rs55723436 | 22:24718408 | G/A | R487H | SPECC1L | ENSG00000100014 | ENST00000437398 | ENSP00000393363 | CDS | 0.064 | 2.56 | 26 | TOLERATED |
| rs12037447 | Not | found |  |  |  |  |  |  |  |  |  |  |
| rs6094136 | Not | found |  |  |  |  |  |  |  |  |  |  |

**Supmenetary Table 3.** Regulatory motifs altered for rs12037447 (HaploReg v4.1) (Pouya Kheradpour, Manolis Kellis, Systematic discovery and characterization of regulatory motifs in ENCODE TF binding experiments, Nucleic Acids Research, Volume 42, Issue 5, 1 March 2014, Pages 2976–2987)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Position Weight Matrix ID(Library from Kheradpour and Kellis, 2013) | Strand | Ref | Alt | Match on:Ref: CAAAATGCCTGAGTTTGGAGATAAATTGCATAATTGTTCTATGCATAGGCATGGGAAATAlt: CAAAATGCCTGAGTTTGGAGATAAATTGCGTAATTGTTCTATGCATAGGCATGGGAAAT |
| AFP1 | + | 13.7 | 1.8 |  AWWAAYWRSAY |
| CEBPA\_1 | + | 10.7 | 10 |  HNRTTRSNHMANHH |
| CEBPA\_2 | + | 11.2 | 12 |  RTTGYRHMW |
| CEBPB\_disc1 | + | 12.9 | 13.9 |  RTTGYRCAAY |
| CEBPB\_known1 | - | 11.1 | 10.6 |  DDVTKDDGHAAN |
| CEBPB\_known2 | + | 11.2 | 10.5 |  HRKVBMTTRCVDMABWCN |
| CEBPD | + | 14.7 | 15.5 |  VATTDCDYMMYY |
| Dlx2 | - | 11.5 | 12 |  NTDDDVYAATTRYHBB |
| En-1\_1 | + | 7.4 | 8.6 |  RWDDTBB |
| HLF | - | 12.1 | 14.3 |  ATKRYGTAAY |
| Hoxa3\_1 | + | 8 | 8.7 |  SVTWWDDKB |
| Nkx2\_8 | - | 13.3 | 2.6 |  SWTAATWV |
| Pou1f1\_2 | - | 12.5 | 1 |  HMTKCWTDHWBRWHHHHH |
| Pou2f2\_known1 | - | 7.5 | -4.5 |  MKVATTWGCATAYY |
| Pou2f2\_known10 | - | 11.3 | 6.5 |  VKDMTTTRCATDBHB |
| Pou2f2\_known7 | - | 12.6 | 0.7 |  DNATTTRCATD |
| Pou3f3 | - | 11.9 | 5.4 |  HWDDTATGCATAWDDDW |
| STAT\_disc4 | - | 4.7 | 3.7 |  TTGWGYAAT |
| Sox\_16 | - | 12.2 | 12 |  DNDDYMATTGTYVHDH |
| Sox\_19 | - | 12 | 11.4 |  NDWWBWATTGTTHHDWW |
| Sox\_2 | - | 12.6 | 12.4 |  DNDWNNDYHATTGTTHHDHVDD |
| Sox\_9 | - | 12.2 | 11.2 |  HDHHWATTGTTCHHDH |
| TATA\_disc9 | + | 11.4 | 6.3 |  ATWTGCAWAW |
| p300\_disc2 | + | 11.8 | 6.4 |  NRTTKCAHMABHHHH |