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| **Table S8a Result of imputation analysis at 7p14.3**  |
| SNP  | Position  | *Pa* | rs1000597  |  |  | status  |
| *D*  | *r*2  |  | gene  | location  |
| rs12669187  | 30882003  | 1.04x10-6  | 0.868  | 0.644  |  | *FAM188B*  | intronic 15  | type  |
| rs12673857  | 30853675  | 1.47x10-6  | 0.799  | 0.621  |  | *FAM188B*  | intronic9  | impute  |
| rs12674155  | 30866068  | 2.47x10-6  | 0.805  | 0.626  |  | *FAM188B*  | intronic9  | type  |
| rs7791980  | 30853025  | 2.95x10-6  | 0.793  | 0.616  |  | *FAM188B*  | intronic9  | impute  |
| rs7792019  | 30853088  | 2.95x10-6  | 0.793  | 0.616  |  | *FAM188B*  | intronic12  | impute  |
| rs12670734  | 30862365  | 3.08x10-6  | 0.805  | 0.626  |  | *FAM188B*  | intronic9  | impute  |
| rs12671536  | 30856854  | 3.16x10-6  | 0.764  | 0.569  |  | *FAM188B*  | intronic9  | impute  |
| rs6959949  | 30853755  | 3.93x10-6  | 0.771  | 0.575  |  | *FAM188B*  | intronic9  | impute  |
| rs1468313  | 30854307  | 4.19x10-6  | 0.771  | 0.575  |  | *FAM188B*  | intronic9  | type  |
| rs12672329  | 30845842  | 8.47x10-6  | 0.795  | 0.602  |  | *FAM188B*  | intronic7  | impute  |
| rs1000597  | 30903703  | 1.06x10-5  | -  | -  |  | *FAM188B-AQP1*  | Inter gene  | type  |
| Note: Possible role of strongly associated on 7p14.3. These SNPs that show the stronger association with nephrolithiasis than rs1000597. Top11 SNPs for imputation analysis on 5q35.3 were shown LD for rs1000597. a*P* value obtained from Cochrane-Armitage trend test.  |

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| **Table S8b Result of imputation analysis at 7p14.3**  |
| SNP  | Position  | *Pa* | rs4142110  |  |  | status  |
| *D*  | *r*2  |  | gene  | location  |
| rs7981733  | 41588060  | 4.08x10-7  | 0.774  | 0.381  |  | *DGKH*  | intron1  | type  |
| rs912875  | 41575238  | 4.09x10-7  | 0.774  | 0.381  |  | *DGKH*  | intron1  | impute  |
| rs9315891  | 41597079  | 4.12x10-7  | 0.774  | 0.38  |  | *DGKH*  | intron1  | impute  |
| rs1170169  | 41595807  | 1.42x10-6  | 0.647  | 0.308  |  | *DGKH*  | intron1  | impute  |
| rs585206  | 41587853  | 1.75x10-6  | 0.647  | 0.308  |  | *DGKH*  | Intron1  | impute  |
| rs9562369  | 41488075  | 2.78x10-6  | 0.507  | 0.044  |  | *KIAA0564-DGKH*  | Inter gene  | impute  |
| rs9562377  | 41583379  | 4.22x10-6  | 1  | 0.135  |  | *DGKH*  | intron1  | impute  |
| rs9566921  | 41585004  | 4.22x10-6  | 1  | 0.135  |  | *DGKH*  | intron1  | type  |
| rs670676  | 41599739  | 5.17x10-6  | 0.864  | 0.664  |  | *DGKH*  | intron2  | impute  |
| rs7984523  | 41576357  | 5.48x10-6  | 0.839  | 0.695  |  | *DGKH*  | intron1  | impute  |
| rs9525568  | 41561251  | 5.78x10-6  | 0.717  | 0.341  |  | *DGKH*  | intron1  | impute  |
| rs1170158  | 41599941  | 6.25x10-6  | 0.859  | 0.663  |  | *DGKH*  | intron2  | impute  |
| rs9566939  | 41680887  | 9.21x10-6  | 0.941  | 0.781  |  | *DGKH*  | intron17  | type  |
| rs347403  | 41687366  | 1.10x10-5  | 0.996  | 0.353  |  | *DGKH*  | intron20  | impute  |
| rs1170155  | 41600711  | 1.15x10-5  | 0.889  | 0.528  |  | *DGKH*  | intron2  | type  |
| rs1170188  | 41576971  | 1.13x10-5  | 0.843  | 0.615  |  | *DGKH*  | intron1  | impute  |
| rs1170187  | 41577835  | 1.13x10-5  | 0.843  | 0.615  |  | *DGKH*  | intron1  | impute  |
| rs1170191  | 41573493  | 1.16x10-5  | 0.843  | 0.615  |  | *DGKH*  | intron1  | type  |
| rs4994103  | 41555148  | 1.17x10-5  | 0.918  | 0.119  |  | *DGKH*  | intron1  | type  |
| rs9566906  | 41540546  | 1.18x10-5  | 0.659  | 0.297  |  | *DGKH*  | intron1  | type  |
| rs9562373  | 41557480  | 1.22x10-5  | 0.918  | 0.119  |  | *DGKH*  | intron1  | impute  |
| rs1900413  | 41558006  | 1.22x10-5  | 0.918  | 0.119  |  | *DGKH*  | intron1  | impute  |
| rs9566935  | 41665185  | 1.29x10-5  | 1  | 0.125  |  | *DGKH*  | intron14  | type  |
| rs17701966  | 41646558  | 1.38x10-5  | 1  | 0.125  |  | *DGKH*  | intron8  | impute  |
| rs1177637  | 41590823  | 1.40x10-5  | 0.843  | 0.615  |  | *DGKH*  | intron1  | impute  |
| rs9566928  | 41606389  | 1.44x10-5  | 1  | 0.129  |  | *DGKH*  | intron3  | impute  |
| rs12876965  | 41610741  | 1.65x10-5  | 0.954  | 0.617  |  | *DGKH*  | intron3  | impute  |
| rs1170102  | 41674117  | 1.67x10-5  | 0.986  | 0.619  |  | *DGKH*  | intron17  | impute  |
| rs1170103  | 41675027  | 1.86x10-5  | 0.988  | 0.601  |  | *DGKH*  | intron17  | impute  |
| rs4598803  | 41660871  | 1.89x10-5  | 1  | 0.612  |  | *DGKH*  | intron11  | type  |
| rs2122247  | 41661140  | 1.90x10-5  | 0.988  | 0.601  |  | *DGKH*  | intron11  | impute  |
| rs10492438  | 41665706  | 1.90x10-5  | 0.988  | 0.601  |  | *DGKH*  | intron14  | impute  |
| rs12584544  | 41666720  | 1.90x10-5  | 0.988  | 0.601  |  | *DGKH*  | intron14  | impute  |
| rs12585267  | 41657971  | 1.93x10-5  | 1  | 0.612  |  | *DGKH*  | intron11  | impute  |
| rs9533007  | 41608235  | 1.94x10-5  | 0.992  | 0.602  |  | *DGKH*  | intron3  | type  |
| rs682573  | 41606655  | 1.97x10-5  | 0.954  | 0.617  |  | *DGKH*  | intron3  | impute  |
| rs12585075  | 41609224  | 1.97x10-5  | 0.954  | 0.617  |  | *DGKH*  | intron3  | impute  |
| rs9566910  | 41549002  | 2.08x10-5  | 0.669  | 0.313  |  | *DGKH*  | intron1  | impute  |
| rs9566924  | 41597907  | 2.19x10-5  | 1  | 0.128  |  | *DGKH*  | intron1  | type  |
| rs9562385  | 41678628  | 2.21x10-5  | 0.967  | 0.652  |  | *DGKH*  | intron17  | impute  |
| rs347413  | 41685040  | 2.61x10-5  | 0.985  | 0.601  |  | *DGKH*  | intron20  | type  |
| rs17598799  | 41670222  | 4.00x10-5  | 0.989  | 0.938  |  | *DGKH*  | intron15  | impute  |
| rs4142110  | 41652522  | 7.15x10-5  | -  | -  |  | *DGKH*  | intron10  | type  |
| Note: Possible role of strongly associated on 13p14.1. These SNPs that show the stronger association with nephrolithiasis than rs4142110. Top45 SNPs for imputation analysis on 13q14.1 were shown LD for rs4142110. a*P* value obtained from Cochrane-Armitage trend test.  |