**Table 1** Calculating diplotype frequencies using the Hardy Weinberg equilibrium

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| **HWE variable** | **HWE calculation** | **Alleles** | **Activity Score (AS)** | **Phenotype Group** |
| p2 | (*f* no function)2 | *\*3, \*4, \*5, \*6, \*7, \*8, \*11, \*12, \*36, \*40, \*42, \*56*  Value for AS = 0 | 0 | gPM |
| q2 | (*f* decreased function)2 | *\*9, \*10, \*17, \*29, \*41, \*44, \*49*  Value for AS = 0.5 | 1 | gNM-slow |
| r2 | (*f* normal function)2 | *\*2, \*35, \*43, \*45 or \*46*  Value for AS = 1 | 2 | gNM-fast |
| s2 | (*f* increased function)2 | *\*1xN, \*2xN*  Value for AS = 2 | 4 | gUM |
| 2pq | 2(*f* no function\* *f* decreased function) |  | 0.5 | gIM |
| 2pr | 2(*f* no function\* *f* normal function) |  | 1 | gNM-slow |
| 2qr | 2(*f* decreased function\* *f* normal function) |  | 1.5 | gNM-fast |
| 2ps | 2(*f* no function\*  *f* increased function) |  | 2 | gNM-fast |
| 2qs | 2(*f* decreased function\*  *f* increased function) |  | 2.5 | gUM |
| 2rs | 2(*f* normal function\* *f* increased function) |  | 3 | gUM |

HWE, Hardy Weinberg equilibrium; *f* = allele frequency; Activity Score (AS) = sum of values assigned to each allele; PM, IM, NM and UM, poor, intermediate, normal and ultrarapid metabolizer; the prefix ‘g’ indicates genotype-predicted phenotype. p, q, r and s correspond to no function (0), decreased function (0.5), normal function (1) and increased function (2) alleles, respectively.