**Table.S3.Identity of amine acid between UGTlA isoforms and UGTlA8 mutational pattern (173 and 277).**

|  |
| --- |
| nucleotide sites |
| UGT | 172 | 173 | 174 | 276 | 277 | 278 |
| 1A1 | L | P | C | N | C | L |
| 1A3 | I | P | C | N | C | A |
| 1A4 | I | P | C | N | C | A |
| 1A6 | F | P | C | N | C | K |
| 1A7 | I | F | C | N | C | H |
| 1A8\*1 | I | A | C | N | C | H |
| 1A8\*2 | I | G | C | N | C | H |
| 1A8\*3 | I | A | C | N | Y | H |
| 1A9 | I | L | C | N | C | H |
| 1A10 | I | F | C | N | C |  |