**Tableau A.1.** Inventaire des gènes impliqués dans la biosynthèse des glucosinolates indoliques chez *Arabidopsis thaliana*.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Nom** | **Etape métabolique** | **Abréviation** | **Code AGI** | **Référence** |
| ***Structure de base*** |
| *Cytochrome P450 79B2* | 1re oxydation | *CYP79B2* | At4g39950 | [117,118] |
| *Cytochrome P450 79B3* | 1re oxydation | *CYP79B3* | At2g22330 | [117,118] |
| *Cytochrome P450 83B1* | 2e oxydation | *CYP83B1/SUR2* | At4g31500 | [120,121,122] |
| *Cytochrome P450 83A1* | 2e oxydation | *CYP83A1/REF2\** | At4g13770 | [122] |
| *Glutathion* S*-transférase F9* | Conjugaison Glutathion | *GSTF9\*\** | At2g30860 | [128] |
| *Glutathion* S*-transférase F10* | Conjugaison Glutathion | *GSTF10\*\** | At2g30870 | [128] |
| *γ-glutamyl peptidase 1* | Hydrolyse γ-glutamyl | *GGP1* | At4g30530 | [48] |
| *γ-glutamyl peptidase 3* | Hydrolyse γ-glutamyl | *GGP3* | At4g30550 | [48] |
| *Supper root 1* | Clivage liaison C-S | *SUR1* | At2g20610 | [137] |
| *UDP-glucosyl transférase 74B1* | Glycosylation | *UGT74B1* | At1g24100 | [138] |
| *Sulfotransférase 16*  | Sulfatation | *SOT16/AtST5a* | At1g74100 | [142] |
| ***Modifications secondaires du noyau indolique*** |
| *Cytochrome P450 81F1* | I3M > 4OH-I3M | *CYP81F1* | At4g37430 | [43] |
| *Cytochrome P450 81F2* | I3M > 4OH-I3M | *CYP81F2* | At5g57220 | [53,58,99] |
| *Cytochrome P450 81F3* | I3M > 4OH-I3M | *CYP81F3* | At4g37400 | [43] |
| *Cytochrome P450 81F4* | I3M > 1OH-I3M | *CYP81F4* | At4g37410 | [43] |
| *Indole glucosinolate* O*-methyltransférase 1* | 4OH-I3M > 4MO-I3M  | *IGMT1* | At1g21100 | [43,109] |
| *Indole glucosinolate* O*-methyltransférase 2* | 4OH-I3M > 4MO-I3M | *IGMT2* | At1g21120 | [43,109] |
| *Indole glucosinolate* O*-methyltransférase 3* | 4OH-I3M > 4MO-I3M | *IGMT3\*\** | At1g2110 | [43,109] |
| *Indole glucosinolate* O*-methyltransférase 4* | 4OH-I3M > 4MO-I3M | *IGMT4\*\** | At1g21130 | [43,109] |
| *Indole glucosinolate* O*-methyltransférase 5* | 1OH-I3M > 1MO-I3M | *IGMT5* | At1g76790 | [109] |

*Notes*: \* = affinité faible pour le substrat; \*\* = rôle non confirmé en conditions naturelles.