

**Supplementary Table 3. The information used in this study includes global Assamonia, global Sinensis, Other, Bloom Car**

| <b>Sample ID</b> | <b>Latin Name</b>                                  | <b>Country</b> | <b>Group</b> | <b>Data Source</b> |
|------------------|--|----------------|--------------|--------------------|
| re049            | <b>PR:</b> <i>C. sinensis</i> var. <i>assamica</i> | China          | Assamica1    | teabase            |
| re050            | <i>C. sinensis</i> var. <i>assamica</i>            | China          | Assamica1    | teabase            |
| re051            | <i>C. sinensis</i> var. <i>assamica</i>            | China          | Assamica1    | teabase            |
| re052            | <i>C. sinensis</i> var. <i>assamica</i>            | China          | Assamica1    | teabase            |
| re053            | <i>C. sinensis</i> var. <i>assamica</i>            | China          | Assamica1    | teabase            |
| re054            | <i>C. sinensis</i> var. <i>assamica</i>            | China          | Assamica1    | teabase            |
| re055            | <i>C. sinensis</i> var. <i>assamica</i>            | China          | Assamica1    | teabase            |
| re058            | <i>C. sinensis</i> var. <i>assamica</i>            | China          | Assamica1    | teabase            |
| re059            | <i>C. sinensis</i> var. <i>assamica</i>            | China          | Assamica1    | teabase            |
| re060            | <i>C. sinensis</i> var. <i>assamica</i>            | China          | Assamica1    | teabase            |
| re061            | <i>C. sinensis</i> var. <i>assamica</i>            | China          | Assamica1    | teabase            |
| re062            | <i>C. sinensis</i> var. <i>assamica</i>            | China          | Assamica1    | teabase            |
| re066            | <i>C. sinensis</i> var. <i>assamica</i>            | China          | Assamica1    | teabase            |
| re067            | <i>C. sinensis</i> var. <i>assamica</i>            | China          | Assamica1    | teabase            |
| re068            | <i>C. sinensis</i> var. <i>assamica</i>            | China          | Assamica1    | teabase            |
| re070            | <i>C. sinensis</i> var. <i>assamica</i>            | China          | Assamica1    | teabase            |
| re072            | <i>C. sinensis</i> var. <i>assamica</i>            | China          | Assamica1    | teabase            |
| re073            | <i>C. sinensis</i> var. <i>assamica</i>            | China          | Assamica1    | teabase            |
| re074            | <i>C. sinensis</i> var. <i>assamica</i>            | China          | Assamica1    | teabase            |
| re076            | <i>C. sinensis</i> var. <i>assamica</i>            | China          | Assamica1    | teabase            |
| re099            | <i>C. sinensis</i> var. <i>assamica</i>            | Vietnam        | Assamica1    | teabase            |
| re101            | <i>C. sinensis</i> var. <i>assamica</i>            | Vietnam        | Assamica1    | teabase            |
| re102            | <i>C. sinensis</i> var. <i>assamica</i>            | Vietnam        | Assamica1    | teabase            |
| re115            | <i>C. sinensis</i> var. <i>assamica</i>            | Laos           | Assamica1    | teabase            |
| re116            | <i>C. sinensis</i> var. <i>assamica</i>            | Laos           | Assamica1    | teabase            |
| re117            | <i>C. sinensis</i> var. <i>assamica</i>            | Laos           | Assamica1    | teabase            |
| re118            | <i>C. sinensis</i> var. <i>assamica</i>            | Laos           | Assamica1    | teabase            |
| re122            | <i>C. sinensis</i> var. <i>assamica</i>            | Myanmar        | Assamica1    | teabase            |
| re123            | <i>C. sinensis</i> var. <i>assamica</i>            | Myanmar        | Assamica1    | teabase            |
| re239            | <i>C. sinensis</i> var. <i>assamica</i>            | Kenya          | Assamica1    | teabase            |
| re240            | <i>C. sinensis</i> var. <i>assamica</i>            | Kenya          | Assamica1    | teabase            |
| re253            | <i>C. sinensis</i> var. <i>assamica</i>            | Kenya          | Assamica1    | teabase            |
| re278            | <i>C. sinensis</i> var. <i>assamica</i>            | Kenya          | Assamica1    | teabase            |

|          |  |            |           |           |
|----------|--|------------|-----------|-----------|
| re355    | <i>C. sinensis</i> var. <i>assamica</i>            | China      | Assamica1 | teabase   |
| re356    | <i>C. sinensis</i> var. <i>assamica</i>            | China      | Assamica1 | teabase   |
| Per4-1   |  | China      | Assamica1 | teabase   |
| Per16-3  | <i>C. sinensis</i> var. <i>assamica</i> cv. Zaofa1 | China      | Assamica1 | teabase   |
| Per26-1  | <i>C. sinensis</i> var. <i>sinensis</i>            | China      | Assamica1 | teabase   |
| Per135-2 |  | China      | Assamica1 | teabase   |
| Per36-1  |  | China      | Assamica1 | teabase   |
| Per72    |  | China      | Assamica1 | teabase   |
| Per78-2  |  | China      | Assamica1 | teabase   |
| HZ122    | <i>C. gymnogyna</i>                                | China      | Assamica1 | CRA001279 |
| HZ109    | <i>C. sinensis</i>                                 | China      | Assamica1 | CRA001279 |
| HZ072    | <i>C. sinensis</i> var. <i>assamica</i>            | China      | Assamica1 | CRA001279 |
| HZ100    | <i>C. sinensis</i> var. <i>assamica</i>            | China      | Assamica1 | CRA001279 |
| HZ117    | <i>C. sinensis</i> var. <i>assamica</i>            | China      | Assamica1 | CRA001279 |
| HZ118    | <i>C. sinensis</i> var. <i>assamica</i>            | China      | Assamica1 | CRA001279 |
| HZ123    | <i>C. sinensis</i> var. <i>assamica</i>            | China      | Assamica1 | CRA001279 |
| LW-1     | <i>C. sinensis</i> var. <i>assamica</i>            | Laos       | Assamica1 | CRA001279 |
| LW-3     | <i>C. sinensis</i> var. <i>assamica</i>            | Laos       | Assamica1 | CRA001279 |
| LW-4     | <i>C. sinensis</i> var. <i>assamica</i>            | Laos       | Assamica1 | CRA001279 |
| LW-5     | <i>C. sinensis</i> var. <i>assamica</i>            | Laos       | Assamica1 | CRA001279 |
| s1-16    | <i>C. sinensis</i> var. <i>assamica</i>            | Kenya      | Assamica1 | CRA001279 |
| re127    | <i>C. sinensis</i> var. <i>assamica</i>            | Indonesia  | Assamica2 | teabase   |
| re128    | <i>C. sinensis</i> var. <i>assamica</i>            | Nepal      | Assamica2 | teabase   |
| re129    | <i>C. sinensis</i> var. <i>assamica</i>            | Nepal      | Assamica2 | teabase   |
| re130    | <i>C. sinensis</i> var. <i>assamica</i>            | Nepal      | Assamica2 | teabase   |
| re131    | <i>C. sinensis</i> var. <i>assamica</i>            | Nepal      | Assamica2 | teabase   |
| re133    | <i>C. sinensis</i> var. <i>assamica</i>            | Nepal      | Assamica2 | teabase   |
| re134    | <i>C. sinensis</i> var. <i>assamica</i>            | Nepal      | Assamica2 | teabase   |
| re167    | <i>C. sinensis</i> var. <i>assamica</i>            | India      | Assamica2 | teabase   |
| re174    | <i>C. sinensis</i> var. <i>assamica</i>            | India      | Assamica2 | teabase   |
| re177    | <i>C. sinensis</i> var. <i>assamica</i>            | India      | Assamica2 | teabase   |
| re183    | <i>C. sinensis</i> var. <i>assamica</i>            | India      | Assamica2 | teabase   |
| re185    | <i>C. sinensis</i> var. <i>assamica</i>            | Bangladesh | Assamica2 | teabase   |
| re186    | <i>C. sinensis</i> var. <i>assamica</i>            | Bangladesh | Assamica2 | teabase   |
| re187    | <i>C. sinensis</i> var. <i>assamica</i>            | Bangladesh | Assamica2 | teabase   |
| re188    | <i>C. sinensis</i> var. <i>assamica</i>            | Bangladesh | Assamica2 | teabase   |

|       |  |            |           |         |
|-------|--|------------|-----------|---------|
| re190 | <i>C. sinensis</i> var. <i>assamica</i>            | Bangladesh | Assamica2 | teabase |
| re194 | <i>C. sinensis</i> var. <i>assamica</i>            | Sri Lanka  | Assamica2 | teabase |
| re197 | <i>C. sinensis</i> var. <i>assamica</i>            | Sri Lanka  | Assamica2 | teabase |
| re198 | <i>C. sinensis</i> var. <i>assamica</i>            | Sri Lanka  | Assamica2 | teabase |
| re206 | <i>C. sinensis</i> var. <i>assamica</i>            | Malaysia   | Assamica2 | teabase |
| re208 | <i>C. sinensis</i> var. <i>sinensis</i>            | Kenya      | Assamica2 | teabase |
| re209 | <i>C. sinensis</i> var. <i>assamica</i>            | Kenya      | Assamica2 | teabase |
| re211 | <i>C. sinensis</i> var. <i>assamica</i>            | Kenya      | Assamica2 | teabase |
| re212 | <i>C. sinensis</i> var. <i>assamica</i>            | Kenya      | Assamica2 | teabase |
| re213 | <i>C. sinensis</i> var. <i>assamica</i>            | Kenya      | Assamica2 | teabase |
| re215 | <i>C. sinensis</i> var. <i>assamica</i>            | Kenya      | Assamica2 | teabase |
| re216 | <i>C. sinensis</i> var. <i>assamica</i>            | Kenya      | Assamica2 | teabase |
| re218 | <i>C. sinensis</i> var. <i>assamica</i>            | Kenya      | Assamica2 | teabase |
| re220 | <i>C. sinensis</i> var. <i>assamica</i>            | Kenya      | Assamica2 | teabase |
| re222 | <i>C. sinensis</i> var. <i>assamica</i>            | Kenya      | Assamica2 | teabase |
| re223 | <i>C. sinensis</i> var. <i>assamica</i>            | Kenya      | Assamica2 | teabase |
| re224 | <i>C. sinensis</i> var. <i>assamica</i>            | Kenya      | Assamica2 | teabase |
| re225 | <i>C. sinensis</i> var. <i>assamica</i>            | Kenya      | Assamica2 | teabase |
| re226 | <i>C. sinensis</i> var. <i>assamica</i>            | Kenya      | Assamica2 | teabase |
| re228 | <i>C. sinensis</i> var. <i>assamica</i>            | Kenya      | Assamica2 | teabase |
| re230 | <i>C. sinensis</i> var. <i>assamica</i>            | Kenya      | Assamica2 | teabase |
| re231 | <i>C. sinensis</i> var. <i>assamica</i>            | Kenya      | Assamica2 | teabase |
| re232 | <i>C. sinensis</i> var. <i>assamica</i>            | Kenya      | Assamica2 | teabase |
| re233 | <i>C. sinensis</i> var. <i>assamica</i>            | Kenya      | Assamica2 | teabase |
| re235 | <i>C. sinensis</i> var. <i>assamica</i>            | Kenya      | Assamica2 | teabase |
| re236 | <i>C. sinensis</i> var. <i>assamica</i>            | Kenya      | Assamica2 | teabase |
| re237 | <i>C. sinensis</i> var. <i>assamica</i>            | Kenya      | Assamica2 | teabase |
| re241 | <i>C. sinensis</i> var. <i>assamica</i>            | Kenya      | Assamica2 | teabase |
| re242 | <i>C. sinensis</i> var. <i>assamica</i>            | Kenya      | Assamica2 | teabase |
| re245 | <i>C. sinensis</i> var. <i>assamica</i>            | Kenya      | Assamica2 | teabase |
| re246 | <i>C. sinensis</i> var. <i>assamica</i>            | Kenya      | Assamica2 | teabase |
| re255 | <i>C. sinensis</i> var. <i>sinensis</i>            | Kenya      | Assamica2 | teabase |
| re259 | <i>C. sinensis</i> var. <i>assamica</i>            | Kenya      | Assamica2 | teabase |
| re261 | <i>C. sinensis</i> var. <i>assamica</i>            | Kenya      | Assamica2 | teabase |
| re263 | <i>C. sinensis</i> var. <i>assamica</i>            | Kenya      | Assamica2 | teabase |
| re264 | <b>PR: <i>C. sinensis</i> var. <i>assamica</i></b> | Kenya      | Assamica2 | teabase |

|       |   |           |           |         |
|-------|---|-----------|-----------|---------|
| re265 | <i>C. sinensis</i> var. <i>assamica</i> | Kenya     | Assamica2 | teabase |
| re271 | <i>C. sinensis</i> var. <i>assamica</i> | Kenya     | Assamica2 | teabase |
| re272 | <i>C. sinensis</i> var. <i>assamica</i> | Kenya     | Assamica2 | teabase |
| re280 | <i>C. sinensis</i> var. <i>assamica</i> | Kenya     | Assamica2 | teabase |
| re289 | <i>C. sinensis</i> var. <i>assamica</i> | Tanzania  | Assamica2 | teabase |
| re291 | <i>C. sinensis</i> var. <i>assamica</i> | Tanzania  | Assamica2 | teabase |
| re292 | <i>C. sinensis</i> var. <i>assamica</i> | Tanzania  | Assamica2 | teabase |
| re293 | <i>C. sinensis</i> var. <i>assamica</i> | S. Africa | Assamica2 | teabase |
| re294 | <i>C. sinensis</i> var. <i>assamica</i> | S. Africa | Assamica2 | teabase |
| re295 | <i>C. sinensis</i> var. <i>assamica</i> | S. Africa | Assamica2 | teabase |
| re296 | <i>C. sinensis</i> var. <i>assamica</i> | S. Africa | Assamica2 | teabase |
| re297 | <i>C. sinensis</i> var. <i>assamica</i> | S. Africa | Assamica2 | teabase |
| re299 | <i>C. sinensis</i> var. <i>assamica</i> | S. Africa | Assamica2 | teabase |
| re300 | <i>C. sinensis</i> var. <i>assamica</i> | S. Africa | Assamica2 | teabase |
| re301 | <i>C. sinensis</i> var. <i>assamica</i> | Rwanda    | Assamica2 | teabase |
| re303 | <i>C. sinensis</i> var. <i>assamica</i> | Rwanda    | Assamica2 | teabase |
| re304 | <i>C. sinensis</i> var. <i>assamica</i> | Rwanda    | Assamica2 | teabase |
| re305 | <i>C. sinensis</i> var. <i>assamica</i> | Rwanda    | Assamica2 | teabase |
| re306 | <i>C. sinensis</i> var. <i>assamica</i> | Rwanda    | Assamica2 | teabase |
| re307 | <i>C. sinensis</i> var. <i>assamica</i> | Rwanda    | Assamica2 | teabase |
| re309 | <i>C. sinensis</i> var. <i>assamica</i> | Rwanda    | Assamica2 | teabase |
| re310 | <i>C. sinensis</i> var. <i>assamica</i> | Rwanda    | Assamica2 | teabase |
| re311 | <i>C. sinensis</i> var. <i>assamica</i> | Malawi    | Assamica2 | teabase |
| re312 | <i>C. sinensis</i> var. <i>assamica</i> | Malawi    | Assamica2 | teabase |
| re313 | <i>C. sinensis</i> var. <i>assamica</i> | Malawi    | Assamica2 | teabase |
| re315 | <i>C. sinensis</i> var. <i>assamica</i> | Malawi    | Assamica2 | teabase |
| re316 | <i>C. sinensis</i> var. <i>assamica</i> | Malawi    | Assamica2 | teabase |
| re317 | <i>C. sinensis</i> var. <i>assamica</i> | Malawi    | Assamica2 | teabase |
| re318 | <i>C. sinensis</i> var. <i>assamica</i> | Malawi    | Assamica2 | teabase |
| re320 | <i>C. sinensis</i> var. <i>assamica</i> | Malawi    | Assamica2 | teabase |
| re325 | <i>C. sinensis</i> var. <i>assamica</i> | Nigeria   | Assamica2 | teabase |
| re326 | <i>C. sinensis</i> var. <i>assamica</i> | Cameroon  | Assamica2 | teabase |
| re327 | <i>C. sinensis</i> var. <i>assamica</i> | Cameroon  | Assamica2 | teabase |
| re328 | <i>C. sinensis</i> var. <i>assamica</i> | Cameroon  | Assamica2 | teabase |
| re330 | <i>C. sinensis</i> var. <i>assamica</i> | Cameroon  | Assamica2 | teabase |
| re376 | <i>C. sinensis</i> var. <i>assamica</i> | Indonesia | Assamica2 | teabase |

|        |   |            |           |           |
|--------|---|------------|-----------|-----------|
| re380  | <i>C. sinensis</i> var. <i>assamica</i> | Indonesia  | Assamica2 | teabase   |
| re388  | <i>C. sinensis</i> var. <i>assamica</i> | India      | Assamica2 | teabase   |
| re389  | <i>C. sinensis</i> var. <i>assamica</i> | India      | Assamica2 | teabase   |
| re390  | <i>C. sinensis</i> var. <i>assamica</i> | India      | Assamica2 | teabase   |
| re392  | <i>C. sinensis</i> var. <i>assamica</i> | India      | Assamica2 | teabase   |
| re393  | <i>C. sinensis</i> var. <i>assamica</i> | India      | Assamica2 | teabase   |
| re401  | <i>C. sinensis</i> var. <i>assamica</i> | Bangladesh | Assamica2 | teabase   |
| ST312  | <i>C. sinensis</i> var. <i>assamica</i> | Kenya      | Assamica2 | CRA001279 |
| s317   | <i>C. sinensis</i> var. <i>assamica</i> | Kenya      | Assamica2 | CRA001279 |
| YH-1-1 | <i>C. sinensis</i> var. <i>assamica</i> | China      | Assamica2 | CRA001279 |
| YH-2   | <i>C. sinensis</i> var. <i>assamica</i> | China      | Assamica2 | CRA001279 |
| re001  | <i>C. sinensis</i> var. <i>sinensis</i> | China      | Sinensis  | teabase   |
| re002  | <i>C. sinensis</i> var. <i>sinensis</i> | China      | Sinensis  | teabase   |
| re006  | <i>C. sinensis</i> var. <i>sinensis</i> | China      | Sinensis  | teabase   |
| re009  | <i>C. sinensis</i> var. <i>sinensis</i> | China      | Sinensis  | teabase   |
| re010  | <i>C. sinensis</i> var. <i>sinensis</i> | China      | Sinensis  | teabase   |
| re011  | <i>C. sinensis</i> var. <i>sinensis</i> | China      | Sinensis  | teabase   |
| re012  | <i>C. sinensis</i> var. <i>sinensis</i> | China      | Sinensis  | teabase   |
| re013  | <i>C. sinensis</i> var. <i>sinensis</i> | China      | Sinensis  | teabase   |
| re014  | <i>C. sinensis</i> var. <i>sinensis</i> | China      | Sinensis  | teabase   |
| re015  | <i>C. sinensis</i> var. <i>sinensis</i> | China      | Sinensis  | teabase   |
| re016  | <i>C. sinensis</i> var. <i>sinensis</i> | China      | Sinensis  | teabase   |
| re017  | <i>C. sinensis</i> var. <i>sinensis</i> | China      | Sinensis  | teabase   |
| re018  | <i>C. sinensis</i> var. <i>sinensis</i> | China      | Sinensis  | teabase   |
| re019  | <i>C. sinensis</i> var. <i>sinensis</i> | China      | Sinensis  | teabase   |
| re022  | <i>C. sinensis</i> var. <i>sinensis</i> | China      | Sinensis  | teabase   |
| re023  | <i>C. sinensis</i> var. <i>sinensis</i> | China      | Sinensis  | teabase   |
| re024  | <i>C. sinensis</i> var. <i>sinensis</i> | China      | Sinensis  | teabase   |
| re025  | <i>C. sinensis</i> var. <i>sinensis</i> | China      | Sinensis  | teabase   |
| re026  | <i>C. sinensis</i> var. <i>sinensis</i> | China      | Sinensis  | teabase   |
| re027  | <i>C. sinensis</i> var. <i>sinensis</i> | China      | Sinensis  | teabase   |
| re028  | <i>C. sinensis</i> var. <i>sinensis</i> | China      | Sinensis  | teabase   |
| re029  | <i>C. sinensis</i> var. <i>sinensis</i> | China      | Sinensis  | teabase   |
| re030  | <i>C. sinensis</i> var. <i>sinensis</i> | China      | Sinensis  | teabase   |
| re031  | <i>C. sinensis</i> var. <i>sinensis</i> | China      | Sinensis  | teabase   |
| re032  | <i>C. sinensis</i> var. <i>sinensis</i> | China      | Sinensis  | teabase   |

|       |   |          |          |         |
|-------|---|----------|----------|---------|
| re033 | <i>C. sinensis</i> var. <i>sinensis</i>           | China    | Sinensis | teabase |
| re034 | <i>C. sinensis</i> var. <i>sinensis</i>           | China    | Sinensis | teabase |
| re035 | <i>C. sinensis</i> var. <i>sinensis</i>           | China    | Sinensis | teabase |
| re036 | <i>C. sinensis</i> var. <i>sinensis</i>           | China    | Sinensis | teabase |
| re037 | <i>C. sinensis</i> var. <i>sinensis</i>           | China    | Sinensis | teabase |
| re038 | <i>C. sinensis</i> var. <i>sinensis</i>           | China    | Sinensis | teabase |
| re039 | <i>C. sinensis</i> var. <i>sinensis</i>           | China    | Sinensis | teabase |
| re040 | <i>C. sinensis</i> var. <i>sinensis</i>           | China    | Sinensis | teabase |
| re041 | <i>C. sinensis</i> var. <i>sinensis</i>           | China    | Sinensis | teabase |
| re043 | <i>C. sinensis</i> var. <i>sinensis</i>           | China    | Sinensis | teabase |
| re047 | <i>C. sinensis</i> var. <i>sinensis</i>           | China    | Sinensis | teabase |
| re086 | <i>C. sinensis</i> var. <i>sinensis</i>           | China    | Sinensis | teabase |
| re087 | <i>C. sinensis</i> var. <i>sinensis</i>           | China    | Sinensis | teabase |
| re094 | <i>C. sinensis</i> var. <i>sinensis</i>           | Japan    | Sinensis | teabase |
| re095 | <i>C. sinensis</i> var. <i>sinensis</i>           | Japan    | Sinensis | teabase |
| re096 | <i>C. sinensis</i> var. <i>sinensis</i>           | Japan    | Sinensis | teabase |
| re098 | <i>C. sinensis</i> var. <i>sinensis</i>           | Japan    | Sinensis | teabase |
| re112 | <b>PR:<i>C. sinensis</i> var. <i>sinensis</i></b> | Thailand | Sinensis | teabase |
| re155 | <i>C. sinensis</i> var. <i>assamica</i>           | Nepal    | Sinensis | teabase |
| re157 | <i>C. sinensis</i> var. <i>assamica</i>           | Nepal    | Sinensis | teabase |
| re158 | <i>C. sinensis</i> var. <i>assamica</i>           | Nepal    | Sinensis | teabase |
| re159 | <i>C. sinensis</i> var. <i>assamica</i>           | Nepal    | Sinensis | teabase |
| re160 | <b>PR:<i>C. sinensis</i> var. <i>sinensis</i></b> | Nepal    | Sinensis | teabase |
| re162 | <i>C. sinensis</i> var. <i>sinensis</i>           | India    | Sinensis | teabase |
| re163 | <i>C. sinensis</i> var. <i>sinensis</i>           | India    | Sinensis | teabase |
| re200 | <i>C. sinensis</i> var. <i>assamica</i>           | Pakistan | Sinensis | teabase |
| re202 | <i>C. sinensis</i> var. <i>assamica</i>           | Pakistan | Sinensis | teabase |
| re203 | <i>C. sinensis</i> var. <i>assamica</i>           | Pakistan | Sinensis | teabase |
| re204 | <i>C. sinensis</i> var. <i>assamica</i>           | Pakistan | Sinensis | teabase |
| re247 | <i>C. sinensis</i> var. <i>sinensis</i>           | Kenya    | Sinensis | teabase |
| re248 | <i>C. sinensis</i> var. <i>sinensis</i>           | Kenya    | Sinensis | teabase |
| re336 | <i>C. sinensis</i> var. <i>sinensis</i>           | China    | Sinensis | teabase |
| re337 | <i>C. sinensis</i> var. <i>sinensis</i>           | China    | Sinensis | teabase |
| re338 | <i>C. sinensis</i> var. <i>sinensis</i>           | China    | Sinensis | teabase |
| re339 | <i>C. sinensis</i> var. <i>sinensis</i>           | China    | Sinensis | teabase |
| re340 | <i>C. sinensis</i> var. <i>sinensis</i>           | China    | Sinensis | teabase |

|          |  |          |          |         |
|----------|--|----------|----------|---------|
| re341    | <i>C. sinensis</i> var. <i>sinensis</i>            | China    | Sinensis | teabase |
| re342    | <i>C. sinensis</i> var. <i>sinensis</i>            | China    | Sinensis | teabase |
| re343    | <i>C. sinensis</i> var. <i>sinensis</i>            | China    | Sinensis | teabase |
| re344    | <i>C. sinensis</i> var. <i>sinensis</i>            | China    | Sinensis | teabase |
| re345    | <i>C. sinensis</i> var. <i>sinensis</i>            | China    | Sinensis | teabase |
| re346    | <i>C. sinensis</i> var. <i>sinensis</i>            | China    | Sinensis | teabase |
| re347    | <i>C. sinensis</i> var. <i>sinensis</i>            | China    | Sinensis | teabase |
| re348    | <i>C. sinensis</i> var. <i>sinensis</i>            | China    | Sinensis | teabase |
| re349    | <i>C. sinensis</i> var. <i>sinensis</i>            | China    | Sinensis | teabase |
| re350    | <i>C. sinensis</i> var. <i>sinensis</i>            | China    | Sinensis | teabase |
| re351    | <i>C. sinensis</i> var. <i>sinensis</i>            | China    | Sinensis | teabase |
| re352    | <i>C. sinensis</i> var. <i>sinensis</i>            | China    | Sinensis | teabase |
| re353    | <i>C. sinensis</i> var. <i>sinensis</i>            | China    | Sinensis | teabase |
| re354    | <i>C. sinensis</i> var. <i>sinensis</i>            | China    | Sinensis | teabase |
| re358    | <i>C. sinensis</i> var. <i>sinensis</i>            | China    | Sinensis | teabase |
| re359    | <i>C. sinensis</i> var. <i>sinensis</i>            | China    | Sinensis | teabase |
| re360    | <i>C. sinensis</i> var. <i>sinensis</i>            | China    | Sinensis | teabase |
| re362    | <i>C. sinensis</i> var. <i>sinensis</i>            | China    | Sinensis | teabase |
| re382    | <b>PR: <i>C. sinensis</i> var. <i>sinensis</i></b> | China    | Sinensis | teabase |
| re384    | <i>C. sinensis</i> var. <i>sinensis</i>            | India    | Sinensis | teabase |
| re385    | <i>C. sinensis</i> var. <i>sinensis</i>            | India    | Sinensis | teabase |
| re386    | <i>C. sinensis</i> var. <i>sinensis</i>            | India    | Sinensis | teabase |
| re399    | <i>C. sinensis</i> var. <i>sinensis</i>            | Nepal    | Sinensis | teabase |
| re403    | <i>C. sinensis</i> var. <i>sinensis</i>            | Vietnam  | Sinensis | teabase |
| re405    | <i>C. sinensis</i> var. <i>sinensis</i>            | Thailand | Sinensis | teabase |
| Per2-1   |  | China    | Sinensis | teabase |
| Per7-1   |  | China    | Sinensis | teabase |
| Per15-3  |  | China    | Sinensis | teabase |
| Per22-3  |  | China    | Sinensis | teabase |
| Per130-2 |  | China    | Sinensis | teabase |
| Per131-2 |  | China    | Sinensis | teabase |
| Per132-2 |  | China    | Sinensis | teabase |
| Per8-1   |  | China    | Sinensis | teabase |
| Per6-1   |  | China    | Sinensis | teabase |
| Per13-3  |  | China    | Sinensis | teabase |
| Per128-1 |  | China    | Sinensis | teabase |

|          |                    |       |          |           |
|----------|--------------------|-------|----------|-----------|
| Per133-2 |                    | China | Sinensis | teabase   |
| HZ003    | <i>C. sinensis</i> | China | Sinensis | CRA001279 |
| HZ004    | <i>C. sinensis</i> | China | Sinensis | CRA001279 |
| HZ006    | <i>C. sinensis</i> | China | Sinensis | CRA001279 |
| HZ008    | <i>C. sinensis</i> | China | Sinensis | CRA001279 |
| HZ009    | <i>C. sinensis</i> | China | Sinensis | CRA001279 |
| HZ010    | <i>C. sinensis</i> | China | Sinensis | CRA001279 |
| HZ011    | <i>C. sinensis</i> | China | Sinensis | CRA001279 |
| HZ013    | <i>C. sinensis</i> | China | Sinensis | CRA001279 |
| HZ014    | <i>C. sinensis</i> | China | Sinensis | CRA001279 |
| HZ015    | <i>C. sinensis</i> | China | Sinensis | CRA001279 |
| HZ016    | <i>C. sinensis</i> | China | Sinensis | CRA001279 |
| HZ017    | <i>C. sinensis</i> | China | Sinensis | CRA001279 |
| HZ018    | <i>C. sinensis</i> | China | Sinensis | CRA001279 |
| HZ020    | <i>C. sinensis</i> | China | Sinensis | CRA001279 |
| HZ028    | <i>C. sinensis</i> | China | Sinensis | CRA001279 |
| HZ031    | <i>C. sinensis</i> | China | Sinensis | CRA001279 |
| HZ034    | <i>C. sinensis</i> | China | Sinensis | CRA001279 |
| HZ036    | <i>C. sinensis</i> | China | Sinensis | CRA001279 |
| HZ037    | <i>C. sinensis</i> | China | Sinensis | CRA001279 |
| HZ040    | <i>C. sinensis</i> | China | Sinensis | CRA001279 |
| HZ041    | <i>C. sinensis</i> | China | Sinensis | CRA001279 |
| HZ043    | <i>C. sinensis</i> | China | Sinensis | CRA001279 |
| HZ048    | <i>C. sinensis</i> | China | Sinensis | CRA001279 |
| HZ054    | <i>C. sinensis</i> | China | Sinensis | CRA001279 |
| HZ057    | <i>C. sinensis</i> | China | Sinensis | CRA001279 |
| HZ058    | <i>C. sinensis</i> | China | Sinensis | CRA001279 |
| HZ059    | <i>C. sinensis</i> | China | Sinensis | CRA001279 |
| HZ060    | <i>C. sinensis</i> | China | Sinensis | CRA001279 |
| HZ063    | <i>C. sinensis</i> | China | Sinensis | CRA001279 |
| HZ064    | <i>C. sinensis</i> | China | Sinensis | CRA001279 |
| HZ065    | <i>C. sinensis</i> | China | Sinensis | CRA001279 |
| HZ066    | <i>C. sinensis</i> | China | Sinensis | CRA001279 |
| HZ068    | <i>C. sinensis</i> | China | Sinensis | CRA001279 |
| HZ069    | <i>C. sinensis</i> | China | Sinensis | CRA001279 |
| HZ070    | <i>C. sinensis</i> | China | Sinensis | CRA001279 |



|       |                    |         |          |           |
|-------|--------------------|---------|----------|-----------|
| HZ071 | <i>C. sinensis</i> | China   | Sinensis | CRA001279 |
| HZ073 | <i>C. sinensis</i> | China   | Sinensis | CRA001279 |
| HZ077 | <i>C. sinensis</i> | China   | Sinensis | CRA001279 |
| HZ080 | <i>C. sinensis</i> | China   | Sinensis | CRA001279 |
| HZ081 | <i>C. sinensis</i> | China   | Sinensis | CRA001279 |
| HZ082 | <i>C. sinensis</i> | China   | Sinensis | CRA001279 |
| HZ083 | <i>C. sinensis</i> | China   | Sinensis | CRA001279 |
| HZ085 | <i>C. sinensis</i> | China   | Sinensis | CRA001279 |
| HZ086 | <i>C. sinensis</i> | China   | Sinensis | CRA001279 |
| HZ112 | <i>C. sinensis</i> | China   | Sinensis | CRA001279 |
| XWY-2 | <i>C. sinensis</i> | America | Sinensis | CRA001279 |
| XWY-3 | <i>C. sinensis</i> | America | Sinensis | CRA001279 |
| XWY-4 | <i>C. sinensis</i> | America | Sinensis | CRA001279 |
| XWY-5 | <i>C. sinensis</i> | America | Sinensis | CRA001279 |
| GE-1  | <i>C. sinensis</i> | Georgia | Sinensis | CRA001279 |
| GE-4  | <i>C. sinensis</i> | Georgia | Sinensis | CRA001279 |
| GE-6  | <i>C. sinensis</i> | Georgia | Sinensis | CRA001279 |
| GE-8  | <i>C. sinensis</i> | Georgia | Sinensis | CRA001279 |
| LC-1  | <i>C. sinensis</i> | China   | Sinensis | CRA001279 |
| LC-2  | <i>C. sinensis</i> | China   | Sinensis | CRA001279 |
| GZ    | <i>C. sinensis</i> | Georgia | Sinensis | CRA001279 |
| DHL   | <i>C. sinensis</i> | Japan   | Sinensis | CRA001279 |
| ZW    | <i>C. sinensis</i> | Japan   | Sinensis | CRA001279 |
| WL    | <i>C. sinensis</i> | Japan   | Sinensis | CRA001279 |
| GLJYD | <i>C. sinensis</i> | Georgia | Sinensis | CRA001279 |
| BCS   | <i>C. sinensis</i> | Japan   | Sinensis | CRA001279 |
| XY-10 | <i>C. sinensis</i> | China   | Sinensis | CRA001279 |
| FL    | <i>C. sinensis</i> | Japan   | Sinensis | CRA001279 |
| JHZS  | <i>C. sinensis</i> | Japan   | Sinensis | CRA001279 |
| XSX   | <i>C. sinensis</i> | Japan   | Sinensis | CRA001279 |
| QXD-1 | <i>C. sinensis</i> | China   | Sinensis | CRA001279 |
| QXD-2 | <i>C. sinensis</i> | China   | Sinensis | CRA001279 |
| ZBD   | <i>C. sinensis</i> | China   | Sinensis | CRA001279 |
| HSKC  | <i>C. sinensis</i> | China   | Sinensis | CRA001279 |
| SB    | <i>C. sinensis</i> | Japan   | Sinensis | CRA001279 |
| JGL   | <i>C. sinensis</i> | Japan   | Sinensis | CRA001279 |

|       |  |       |          |           |
|-------|--|-------|----------|-----------|
| zhen  | <i>C. sinensis</i>                       | Japan | Sinensis | CRA001279 |
| XSL   | <i>C. sinensis</i>                       | Japan | Sinensis | CRA001279 |
| HZ050 | <i>C. sinensis</i> var. <i>assamica</i>  | China | Sinensis | CRA001279 |
| DBZ-1 | <i>C. sinensis</i> var. <i>assamica</i>  | Burma | Sinensis | CRA001279 |
| HZ002 | <i>C. sinensis</i> var. <i>pubilimba</i> | China | Sinensis | CRA001279 |
| JX-4  | <i>C. sinensis</i> var. <i>pubilimba</i> | China | Sinensis | CRA001279 |
| HZ088 | <i>C.sp</i>                              | China | Sinensis | CRA001279 |
| re363 | <i>C. taliensis</i>                      | China | Wild     | teabase   |
| re364 | <i>C. taliensis</i>                      | China | Wild     | teabase   |
| re365 | <i>C. taliensis</i>                      | China | Wild     | teabase   |
| re366 | <i>C. taliensis</i>                      | China | Wild     | teabase   |
| re367 | <i>C. taliensis</i>                      | China | Wild     | teabase   |
| re368 | <i>C. tachangensis</i>                   | China | Wild     | teabase   |
| re369 | <i>C. tachangensis</i>                   | China | Wild     | teabase   |
| re370 | <i>C. crassicolumna</i>                  | China | Wild     | teabase   |
| re371 | <i>C. crassicolumna</i>                  | China | Wild     | teabase   |
| re372 | <i>C. kwangsiensis</i>                   | China | Wild     | teabase   |
| re373 | <i>C. kwangsiensis</i>                   | China | Wild     | teabase   |
| re381 | <i>C. gymnogyna</i>                      | China | Wild     | teabase   |
| re383 | <i>C. sp</i>                             | India | Wild     | teabase   |
| re400 | <i>C. gymnogyna</i>                      | China | Wild     | teabase   |
| re406 | <i>C. taliensis</i>                      | China | Wild     | teabase   |
| re407 | <i>C. taliensis</i>                      | China | Wild     | teabase   |
| re408 | <i>C. taliensis</i>                      | China | Wild     | teabase   |
| re409 | <i>C. taliensis</i>                      | China | Wild     | teabase   |
| re410 | <i>C. taliensis</i>                      | China | Wild     | teabase   |
| re411 | <i>C. taliensis</i>                      | China | Wild     | teabase   |
| re412 | <i>C. taliensis</i>                      | China | Wild     | teabase   |
| re413 | <i>C. taliensis</i>                      | China | Wild     | teabase   |
| re414 | <i>C. taliensis</i>                      | China | Wild     | teabase   |
| re416 | <i>C. tachangensis</i>                   | China | Wild     | teabase   |
| re417 | <i>C. tachangensis</i>                   | China | Wild     | teabase   |
| re418 | <i>C. tachangensis</i>                   | China | Wild     | teabase   |
| re419 | <i>C. tachangensis</i>                   | China | Wild     | teabase   |
| re420 | <i>C. tachangensis</i>                   | China | Wild     | teabase   |
| re421 | <i>C. crassicolumna</i>                  | China | Wild     | teabase   |

|         |                         |       |                  |           |
|---------|-------------------------|-------|------------------|-----------|
| re422   | <i>C. crassicolumna</i> | China | Wild             | teabase   |
| re423   | <i>C. crassicolumna</i> | China | Wild             | teabase   |
| re424   | <i>C. leptophylla</i>   | China | Wild             | teabase   |
| re425   | <i>C. leptophylla</i>   | China | Wild             | teabase   |
| re426   | <i>C. leptophylla</i>   | China | Wild             | teabase   |
| re428   | <i>C. costata</i>       | China | Wild             | teabase   |
| re430   | <i>C. taliensis</i>     | India | Wild             | teabase   |
| re431   | <i>C. costata</i>       | China | Wild             | teabase   |
| Per48-2 | <i>C. taliensis</i>     | China | Wild             | teabase   |
| Per34-2 | <i>C. taliensis</i>     | China | Wild             | teabase   |
| HZ095   | <i>C. crassicolumna</i> | China | Wild             | CRA001279 |
| HZ094   | <i>C.sp</i>             | China | Wild             | CRA001279 |
| KM1     | <i>C. azalea</i>        | China | Bloom Camellia   | teabase   |
| KM2     | <i>C. saluenensis</i>   | China | Bloom Camellia   | teabase   |
| KM4     | <i>C. reticulata</i>    | China | Bloom Camellia   | teabase   |
| KM9     | <i>C. japonica</i>      | Japan | Bloom Camellia   | teabase   |
| KM10    | <i>C. japonica</i>      | Japan | Bloom Camellia   | teabase   |
| KM11    | <i>C. japonica</i>      | Japan | Bloom Camellia   | teabase   |
| KM12    | <i>C. japonica</i>      | Japan | Bloom Camellia   | teabase   |
| KM13    | <i>C. japonica</i>      | China | Bloom Camellia   | teabase   |
| KM14    | <i>C. japonica</i>      | China | Bloom Camellia   | teabase   |
| KM15    | <i>C. japonica</i>      | China | Bloom Camellia   | teabase   |
| KM16    | <i>C. japonica</i>      | China | Bloom Camellia   | teabase   |
| KM17    | <i>C. japonica</i>      | China | Bloom Camellia   | teabase   |
| KM18    | <i>C. reticulata</i>    | China | Bloom Camellia   | teabase   |
| KM19    | <i>C. reticulata</i>    | China | Bloom Camellia   | teabase   |
| KM20    | <i>C. reticulata</i>    | China | Bloom Camellia   | teabase   |
| KM21    | <i>C. reticulata</i>    | China | Bloom Camellia   | teabase   |
| KM26    | <i>C. edithae</i>       | China | Bloom Camellia   | teabase   |
| KM32    | <i>C. japonica</i>      | China | Bloom Camellia   | teabase   |
| KM34    | <i>C. japonica</i>      | China | Bloom Camellia   | teabase   |
| GN1     | <i>C. reticulata</i>    | China | Bloom Camellia   | teabase   |
| GN2     | <i>C. reticulata</i>    | China | Bloom Camellia   | teabase   |
| GN22    | <i>C. semiserrata</i>   | China | Bloom Camellia   | teabase   |
| GN3     |                         | China | Oilseed Camellia | teabase   |
| KM5     | <i>C. grijsii</i>       | China | Oilseed Camellia | teabase   |

|       |   |                     |                  |           |
|-------|---|---------------------|------------------|-----------|
| KM25  | <i>C. grijsii</i>                       | China               | Oilseed Camellia | teabase   |
| KM27  | <i>C. forrestii</i>                     | China, Vietnam      | Other            | teabase   |
| re379 | <i>C. costei</i>                        | China               | Other            | teabase   |
| re429 | <i>C. pilosperma</i>                    | China               | Other            | teabase   |
| KM3   | <i>C. petelotii</i>                     | China, Vietnam      | Other            | teabase   |
| KM6   | <i>C. cuspidata</i>                     | China               | Other            | teabase   |
| KM7   | <i>C. costei</i>                        | China               | Other            | teabase   |
| KM8   | <i>C. yunnanensis var. camellioides</i> | China               | Other            | teabase   |
| KM22  | <i>C. pyxidiacea</i>                    | China               | Other            | teabase   |
| KM23  | <i>C. tsaii Hu</i>                      | China, Myanmar, Vie | Other            | teabase   |
| KM31  | <i>C. tuberculata</i>                   | China               | Other            | teabase   |
| KM35  | <i>C. impressinervis</i>                | China               | Other            | teabase   |
| GN4   |   | China               | Other            | teabase   |
| GN5   |   | China               | Other            | teabase   |
| GN6   |   | China               | Other            | teabase   |
| GN7   | <i>C. amplexicaulis</i>                 | Vietnam             | Other            | teabase   |
| GN12  |   | China               | Oilseed Camellia | teabase   |
| GN13  |   | China               | Oilseed Camellia | teabase   |
| GN14  |   | China               | Oilseed Camellia | teabase   |
| Per86 | <i>C. osmantha</i>                      | China               | Oilseed Camellia | teabase   |
| KM28  | <i>C. sasanqua</i>                      | China, Japan        | Oilseed Camellia | teabase   |
| KM29  | <i>C. sasanqua</i>                      | China, Japan        | Oilseed Camellia | teabase   |
| KM30  | <i>C. oleifera</i>                      | China, Laos, Myanma | Oilseed Camellia | teabase   |
| KM33  | <i>C. sasanqua</i>                      | China               | Oilseed Camellia | teabase   |
| GN8   | <i>C. vietnamensis</i>                  | China               | Oilseed Camellia | teabase   |
| GN9   | <i>C. osmantha</i>                      | China               | Oilseed Camellia | teabase   |
| GN10  | <i>C. osmantha</i>                      | China               | Oilseed Camellia | teabase   |
| GN11  | <i>C. osmantha</i>                      | China               | Oilseed Camellia | teabase   |
| GN15  | <i>C. oleifera</i>                      | China               | Oilseed Camellia | teabase   |
| GN16  | <i>C. oleifera</i>                      | China               | Oilseed Camellia | teabase   |
| GN17  | <i>C. oleifera</i>                      | China               | Oilseed Camellia | teabase   |
| GN18  | <i>C. drupifera</i>                     | China               | Oilseed Camellia | teabase   |
| GN19  | <i>C. drupifera</i>                     | China               | Oilseed Camellia | teabase   |
| GN20  | <i>C. drupifera</i>                     | China               | Oilseed Camellia | teabase   |
| GN21  | <i>C. oleifera</i>                      | China               | Oilseed Camellia | teabase   |
| CM-1  | <i>C. sasanqua</i>                      | China               | Oilseed Camellia | CRA001279 |

**nellia, Oil seed, and Wild samples**