**Table S2** Gene annotation in *S. roseosporus* L2790

|  |  |  |  |
| --- | --- | --- | --- |
| **Module** | **Name of gene** | **Position (start-end)** | **Proposed function** |
| **KYN pathway Associated Genes** | [*orf3*](http://rast.nmpdr.org/seedviewer.cgi?page=Annotation&feature=fig|6666666.290734.peg.6139)*242* | 3694181-3693336 | Oxidoreductase |
| [*orf3*](http://rast.nmpdr.org/seedviewer.cgi?page=Annotation&feature=fig|6666666.290734.peg.6140)*243* | 3695212-3694289 | putative lipase/esterase |
| [*orf3*](http://rast.nmpdr.org/seedviewer.cgi?page=Annotation&feature=fig|6666666.290734.peg.6141)*244* | 3696609-3695377 | Kynureninase (EC 3.7.1.3) |
| [*orf3*](http://rast.nmpdr.org/seedviewer.cgi?page=Annotation&feature=fig|6666666.290734.peg.6142)*245* | 3697450-3696602 | Tryptophan 2,3-dioxygenase (EC 1.13.11.11) |
| [*orf6*](http://rast.nmpdr.org/seedviewer.cgi?page=Annotation&feature=fig|6666666.290734.peg.6142)*598 (dptJ)* | 7389493-7390230 | Tryptophan 2,3-dioxygenase (EC 1.13.11.11) |
| **Pigment Synthesis Associated Genes** | [*orf32*](http://rast.nmpdr.org/seedviewer.cgi?page=Annotation&feature=fig|6666666.290734.peg.349)*59* | 3710851\_3711273 | Polyketide cyclase WhiE VII |
| [*orf32*](http://rast.nmpdr.org/seedviewer.cgi?page=Annotation&feature=fig|6666666.290734.peg.350)*65* | 3721031\_3719799 | Polyketide chain length factor WhiE-CLF |
| [*orf32*](http://rast.nmpdr.org/seedviewer.cgi?page=Annotation&feature=fig|6666666.290734.peg.351)*66* | 3722329\_3721046 | Polyketide beta-ketoacyl synthase WhiE-KS |
| [*orf32*](http://rast.nmpdr.org/seedviewer.cgi?page=Annotation&feature=fig|6666666.290734.peg.351)*67* | 3723207\_3722326 | Polyketide cyclase WhiE II |
| [*orf5*](http://rast.nmpdr.org/seedviewer.cgi?page=Annotation&feature=fig|6666666.290734.peg.351)*781* | 6435239\_6434352 | Indigoidine synthase A-like protein, uncharacterized enzyme involved in pigment biosynthesis |