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| **Phylum** | **Bioactive metabolite** | **Biosynthetic clusterGenBank ID** | **FAAL(GenBank ID)** | **Reference** |
| **Proteobacteria** | Phenylnannolone | KF739396.1 | Phn2(AHN85651.1) | (Bouhired et al., 2014) |
| Ambruticin | DQ897667.1 | AmbG(ABK32262.1) | (Hemmerling et al., 2018; Julien et al., 2006) |
| Alklyresorcylic acids | NC\_008095.1 | FtpD(WP011556561.1) | (Hayashi et al., 2011) |
| Caryoynencin | CP022213.1(3094977 to 3108181) | CayA(AWY55460.1) | (Ross et al., 2014) |
| Vioprolide | MH108942.1 | VioA(AWI62626.1) | (Auerbach et al., 2018) |
| Tambjamine YP1 | AAOH01000002.1(146524 to 172121) | TamA(EAR29369.1) | (Marchetti et al., 2018) |
| Ralsolamycin | AL646053.1(777576 to 820777) | RSp0641(CAD17792.1) | (Spraker et al., 2016) |
| Micacocidin | AL646052.1(1941939 to 1979076) | RSc1806(CAD15508.1) | (Kage et al., 2013; Kreutzer et al., 2011) |
| **Cyanobacteria** | Puwainaphycin | KM078884.1 | PuwC(AIW82280.1) | (Mares et al., 2014) |
| Olefin | CP000951.1 | SYNPCC7002\_A1173(ACA99172.1) | (Zhu et al., 2018) |
| Jamaicamide | AY522504.1 | JamA(AAS98774.1) | (Edwards et al., 2004) |
| Hectochlorin | AY974560.1 | HctA(AAY42393.1) | (Kleigrewe et al., 2015) |
| Microginin | NZ\_HE973145.1(58948 to 82880) | MICAD\_RS03045(WP\_002774031.1) | (Humbert et al., 2013) |
| **Actinobacteria** | Mycolic acid | NC\_000962.3(4255945 to 4263066) | MtFAAL32(NP\_218318.1) | (Gavalda et al., 2009; Leger et al., 2009) |
| PDIM | NC\_000962.3 (3276380 to 3302455) | MtFAAL29 (NP\_217466.3)MtFAAL22 (NP\_217464.1)MtFAAL28 (NP\_217457.1) | (Simeone et al., 2010; Trivedi et al., 2005) |
| Glycopeptidolipid | AY439015.3 | MsFAAL28(ABC70854.1) | (Vats et al., 2012) |
| Daptomycin | AY787762.1 | DptE(AAX31555.1) | (Baltz et al., 2021; Wittmann et al., 2008) |
| Taromycin A | KF301601.1 | -(AHH53502.1) | (Yamanaka et al., 2014) |
| **Firmicutes** | Mycosubtilin | AF184956.1 | MycA(AAF08795.1) | (Duitman et al., 1999) |
| Bacillomycin | CP000560.1(1867976 to 1914123) | BmyA(ABS74181.1) | (Koumoutsi et al., 2004; Lu et al., 2019) |