Article

Taxonomic and Metabolite Diversity of Actinomycetes Associated with Three Australian Ascidians

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**T**able S1 – Ascidian-associated actinomycete collection

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| **Isolate-ID** | **OTU** | **Ascidian host** | **Isolation  media** | **16S rRNA  identification** | **GenBank  accession #** |
| USC16000 | denovo32 | *S. rubra* | SCA | *Streptomyces* sp. | MF773756 |
| USC16001 | denovo11 | *S. rubra* | CS | *Streptomyces* sp. | MF773757 |
| USC16002 | denovo69 | *S. rubra* | CS | *Streptomyces* sp. | MF773758 |
| USC16003 | denovo19 | *S. rubra* | CS | *Streptomyces* sp. | MF773759 |
| USC16004 | denovo49 | *S. rubra* | CS | *Streptomyces* sp. | MF773760 |
| USC16005 | denovo43 | *S. rubra* | CS | *Streptomyces* sp. | MF773761 |
| USC16006 | denovo0 | *S. rubra* | CS | *Streptomyces* sp. | MF773762 |
| USC16007 | denovo28 | *S. rubra* | CS | *Streptomyces* sp. | MF773763 |
| USC16008 | denovo68 | *S. rubra* | CS | *Streptomyces* sp. | MF773764 |
| USC16009 | denovo57 | *S. rubra* | CS | *Streptomyces* sp. | MF773765 |
| USC16010 | denovo38 | *S. rubra* | CS | *Streptomyces* sp. | MF773766 |
| USC16011 | denovo10 | *S. rubra* | CS | *Streptomyces* sp. | MF773767 |
| USC16012 | denovo11 | *S. rubra* | CS | *Streptomyces* sp. | MF773768 |
| USC16013 | denovo24 | *S. rubra* | CS | *Streptomyces* sp. | MF773769 |
| USC16014 | denovo34 | *S. rubra* | CS | *Streptomyces* sp. | MF773770 |
| USC16015 | denovo4 | *S. rubra* | CS | *Streptomyces* sp. | MF773771 |
| USC16016 | denovo25 | *S. rubra* | CS | *Streptomyces* sp. | MF773772 |
| USC16017 | denovo29 | *S. rubra* | CS | *Streptomyces* sp. | MF773773 |
| USC16018 | denovo19 | *S. rubra* | CS | *Streptomyces* sp. | MF773774 |
| USC16019 | denovo48 | *S. rubra* | CS | *Streptomyces* sp. | MF773775 |
| USC16020 | denovo48 | *S. rubra* | CS | *Streptomyces* sp. | MF773776 |
| USC16021 | denovo30 | *S. rubra* | SCA | *Streptomyces* sp. | MF773777 |
| USC16022 | denovo29 | *A. solidium* | CS | *Streptomyces* sp. | MF773778 |
| USC16023 | denovo73 | *A. solidium* | CS | *Streptomyces* sp. | MF773779 |
| USC16024 | denovo27 | *P. vasculosum* | SCA | *Streptomyces* sp. | MF773780 |
| USC16025 | denovo18 | *P. vasculosum* | SCA | *Streptomyces* sp. | MF773781 |
| USC16026 | denovo63 | *P. vasculosum* | CS | *Streptomyces* sp. | MF773782 |
| USC16027 | denovo74 | *S. rubra* | CS | *Streptomyces* sp. | MF773783 |
| USC16028 | denovo67 | *S. rubra* | SA | *Micromonospora* sp. | MF773784 |
| USC16029 | denovo67 | *S. rubra* | SCA | *Micromonospora* sp. | MF773785 |
| USC16030 | denovo5 | *S. rubra* | SA | *Micromonospora* sp. | MF773786 |
| USC16031 | denovo46 | *S. rubra* | SCA | *Micromonospora* sp. | MF773787 |
| USC16032 | denovo67 | *S. rubra* | SCA | *Micromonospora* sp. | MF773788 |
| USC16033 | denovo70 | *S. rubra* | SCA | *Micromonospora* sp. | MF773789 |
| USC16034 | denovo67 | *S. rubra* | SCA | *Micromonospora* sp. | MF773790 |
| USC16035 | denovo23 | *S. rubra* | SCA | *Micromonospora* sp. | MF773791 |
| USC16036 | denovo52 | *S. rubra* | SCA | *Micromonospora* sp. | MF773792 |
| USC16037 | denovo1 | *S. rubra* | SCA | *Micromonospora* sp. | MF773793 |
| USC16038 | denovo71 | *S. rubra* | SCA | *Micromonospora* sp. | MF773794 |
| USC16039 | denovo16 | *S. rubra* | SCA | *Micromonospora* sp. | MF773795 |
| USC16040 | denovo52 | *S. rubra* | SCA | *Micromonospora* sp. | MF773796 |
| USC16041 | denovo12 | *S. rubra* | CS | *Streptomyces* sp. | MF773797 |

**T**able S1 – Ascidian-associated actinomycete collection (*continued*)

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| **Isolate-ID** | **OTU** | **Ascidian host** | **Isolation  media** | **16S rRNA  identification** | **GenBank  accession #** |
| USC16042 | denovo51 | *S. rubra* | SA | *Micromonospora* sp. | MF773798 |
| USC16043 | denovo61 | *S. rubra* | SA | *Micromonospora* sp. | MF773799 |
| USC16044 | denovo56 | *S. rubra* | SA | *Micromonospora* sp. | MF773800 |
| USC16045 | denovo70 | *S. rubra* | SA | *Micromonospora* sp. | MF773801 |
| USC16046 | denovo33 | *S. rubra* | SA | *Micromonospora* sp. | MF773802 |
| USC16047 | denovo37 | *S. rubra* | SA | *Micromonospora* sp. | MF773803 |
| USC16048 | denovo23 | *S. rubra* | SA | *Micromonospora* sp. | MF773804 |
| USC16049 | denovo51 | *S. rubra* | SCA | *Micromonospora* sp. | MF773805 |
| USC16050 | denovo52 | *S. rubra* | SCA | *Micromonospora* sp. | MF773806 |
| USC16051 | denovo37 | *S. rubra* | SA | *Micromonospora* sp. | MF773807 |
| USC16052 | denovo70 | *S. rubra* | SA | *Micromonospora* sp. | MF773808 |
| USC16053 | denovo50 | *S. rubra* | SA | *Micromonospora* sp. | MF773809 |
| USC16054 | denovo67 | *S. rubra* | SCA | *Micromonospora* sp. | MF773810 |
| USC16055 | denovo61 | *S. rubra* | SCA | *Micromonospora* sp. | MF773811 |
| USC16056 | denovo8 | *S. rubra* | SCA | *Micromonospora* sp. | MF773812 |
| USC16057 | denovo26 | *S. rubra* | SCA | *Micromonospora* sp. | MF773813 |
| USC16058 | denovo67 | *S. rubra* | SCA | *Micromonospora* sp. | MF773814 |
| USC16059 | denovo52 | *S. rubra* | SCA | *Micromonospora* sp. | MF773815 |
| USC16060 | denovo70 | *S. rubra* | SCA | *Micromonospora* sp. | MF773816 |
| USC16061 | denovo13 | *S. rubra* | SCA | *Micromonospora* sp. | MF773817 |
| USC16062 | denovo31 | *S. rubra* | SCA | *Streptomyces* sp. | MF773818 |
| USC16063 | denovo47 | *S. rubra* | SCA | *Streptomyces* sp. | MF773819 |
| USC16064 | denovo53 | *A. solidium* | SCA | *Micromonospora* sp. | MF773820 |
| USC16065 | denovo67 | *A. solidium* | SCA | *Micromonospora* sp. | MF773821 |
| USC16066 | denovo66 | *A. solidium* | SCA | *Micromonospora* sp. | MF773822 |
| USC16067 | denovo72 | *A. solidium* | SCA | *Micromonospora* sp. | MF773823 |
| USC16068 | denovo36 | *A. solidium* | SCA | *Streptomyces* sp. | MF773824 |
| USC16069 | denovo17 | *A. solidium* | SCA | *Micromonospora* sp. | MF773825 |
| USC16070 | denovo67 | *A. solidium* | SCA | *Micromonospora* sp. | MF773826 |
| USC16071 | denovo72 | *P. vasculosum* | SA | *Micromonospora* sp. | MF773827 |
| USC16072 | denovo70 | *A. solidium* | SCA | *Micromonospora* sp. | MF773828 |
| USC16073 | denovo70 | *A. solidium* | SCA | *Micromonospora* sp. | MF773829 |
| USC16074 | denovo70 | *A. solidium* | SCA | *Micromonospora* sp. | MF773830 |
| USC16075 | denovo70 | *A. solidium* | SCA | *Micromonospora* sp. | MF773831 |
| USC16076 | denovo41 | *P. vasculosum* | SCA | *Micromonospora* sp. | MF773832 |
| USC16077 | denovo39 | *P. vasculosum* | SCA | *Micromonospora* sp. | MF773833 |
| USC16078 | denovo55 | *P. vasculosum* | SCA | *Micromonospora* sp. | MF773834 |
| USC16079 | denovo58 | *P. vasculosum* | SCA | *Micromonospora* sp. | MF773835 |
| USC16080 | denovo22 | *P. vasculosum* | SCA | *Micromonospora* sp. | MF773836 |
| USC16081 | denovo67 | *P. vasculosum* | SA | *Micromonospora* sp. | MF773837 |
| USC16082 | denovo3 | *P. vasculosum* | SA | *Micromonospora* sp. | MF773838 |
| USC16083 | denovo67 | *P. vasculosum* | SCA | *Micromonospora* sp. | MF773839 |
| USC16084 | denovo9 | *P. vasculosum* | SCA | *Micromonospora* sp. | MF773840 |
| USC16085 | denovo2 | *P. vasculosum* | SA | *Micromonospora* sp. | MF773841 |
| USC16086 | denovo51 | *P. vasculosum* | SCA | *Micromonospora* sp. | MF773842 |
| USC16087 | denovo9 | *P. vasculosum* | SCA | *Micromonospora* sp. | MF773843 |

**T**able S1 – Ascidian-associated actinomycete collection (*continued*)

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| **Isolate-ID** | **OTU** | **Ascidian host** | **Isolation  media** | **16S rRNA  identification** | **GenBank  accession #** |
| USC16088 | denovo61 | *P. vasculosum* | SA | *Micromonospora* sp. | MF773844 |
| USC16089 | denovo53 | *P. vasculosum* | SA | *Micromonospora* sp. | MF773845 |
| USC16090 | denovo37 | *P. vasculosum* | SA | *Micromonospora* sp. | MF773846 |
| USC16091 | denovo7 | *A. solidium* | CS | *Nocardia* sp. | MF773847 |
| USC16092 | denovo20 | *S. rubra* | CS | *Rhodoccocus* sp. | MF773848 |
| USC16093 | denovo7 | *S. rubra* | CS | *Nocardia* sp. | MF773849 |
| USC16094 | denovo14 | *S. rubra* | CS | *Rhodoccocus* sp. | MF773850 |
| USC16095 | denovo42 | *S. rubra* | SCA | *Nocardia* sp. | MF773851 |
| USC16096 | denovo45 | *S. rubra* | SCA | *Nocardia* sp. | MF773852 |
| USC16097 | denovo64 | *S. rubra* | SCA | *Nocardia* sp. | MF773853 |
| USC16098 | denovo75 | *A. solidium* | SCA | *Streptomyces* sp. | MF773854 |
| USC16099 | denovo76 | *A. solidium* | SCA | *Streptomyces* sp. | MF773855 |
| USC16100 | denovo6 | *S. rubra* | CS | *Streptomyces* sp. | MF773856 |
| USC16101 | denovo21 | *S. rubra* | SA | *Streptomyces* sp. | MF773857 |
| USC16102 | denovo52 | *S. rubra* | SA | *Micromonospora* sp. | MF773858 |
| USC16103 | denovo35 | *S. rubra* | SCA | *Micromonospora* sp. | MF773859 |
| USC16104 | denovo70 | *S. rubra* | SCA | *Micromonospora* sp. | MF773860 |
| USC16105 | denovo40 | *S. rubra* | SCA | *Micromonospora* sp. | MF773861 |
| USC16106 | denovo61 | *A. solidium* | SCA | *Micromonospora* sp. | MF773862 |
| USC16107 | denovo54 | *P. vasculosum* | SCA | *Micromonospora* sp. | MF773863 |
| USC16108 | denovo59 | *S. rubra* | SCA | *Micromonospora* sp. | MF773864 |
| USC16109 | denovo61 | *A. solidium* | SCA | *Micromonospora* sp. | MF773865 |
| USC16110 | denovo38 | *S. rubra* | CS | *Streptomyces* sp. | MF773866 |
| USC16111 | denovo62 | *S. rubra* | SCA | *Micromonospora* sp. | MF773867 |
| USC16112 | denovo70 | *S. rubra* | CS | *Micromonospora* sp. | MF773868 |
| USC16113 | denovo60 | *P. vasculosum* | MA | *Streptomyces* sp. | MF773869 |
| USC16114 | denovo67 | *S. rubra* | MA | *Micromonospora* sp. | MF773870 |
| USC16115 | denovo44 | *S. rubra* | MA | *Streptomyces* sp. | MF773871 |
| USC16117 | denovo4 | *S. rubra* | MA | *Streptomyces* sp. | MF773872 |
| USC16118 | denovo4 | *S. rubra* | MA | *Streptomyces* sp. | MF773873 |
| USC16119 | denovo77 | *S. rubra* | MA | *Streptosporangium* sp. | MF773874 |
| USC16120 | denovo7 | *A. solidium* | NH | *Nocardia* sp. | MF773875 |
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**Table S2.** Molecular ion table – GNPS library hits

**Table S2.** Molecular ion table – GNPS library hits (*continued*)

