

#NEXUS

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KJ742409_Lactarius_pseudouvidus -----
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KJ742411_Lactarius_sp -----
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UDB013274_Russula aactgcgagtggaagcgggaaaagctcaaatttaaaatctggtggtctttggccatccgagttgtaatttagagaagcgtcttccgcgctggaccgtgcac

HE681772_Astraeus_sp -----
HE681774_Astraeus_sp -----
HE681775_Astraeus_sp -----
HE681773_Astraeus_sp -----
KU356730_Astraeus_sirindhorniae_NEWLY_GENERATED -----
AB848536_Lactarius_sp -----
KC791081_Uncultured_fungus -----
KJ705210_Lactarius_argillaceifolius -----
KJ705211_Lactarius_argillaceifolius -----
DQ093852_Lactarius_pallescens -----
GU234059_Lactarius_violascens -----
KJ742409_Lactarius_pseudouvidus -----
KJ742392_Lactarius_brunneoviolaceus -----
KJ742411_Lactarius_sp -----
KJ742402_Lactarius_luridus -----
KJ742403_Lactarius_luridus -----
KJ742404_Lactarius_luridus -----
KM576498_Lactarius_sp -----
KJ742407_Lactarius_luridus -----
KF241547_Lactarius_luridus -----
JX625292_Uncultured_Lactarius -----
KU356731_Lactarius_luridus_NEWLY_GENERATED -----
KJ742405_Lactarius_luridus -----
KJ742406_Lactarius_luridus -----
KJ742395_Lactarius_brunneoviolaceus -----
UDB011691_Lactarius_luridus -----
KJ742393_Lactarius_brunneoviolaceus -----
UDB023551_Lactarius_luridus -----
UDB023493_Lactarius_luridus -----
GU234088_Lactarius_nanus -----
KJ742410_Lactarius_pseudouvidus -----
EF218785_ectomycorrhiza_Lactarius -----
AB588960_Uncultured_ectomycorrhizal -----
KJ742390_Lactarius_aspideus -----
UDB019724_Lactarius_aspideus -----
GU234051_Lactarius_pseudouvidus -----
GU184028_Uncultured_Lactarius -----
GU184027_Uncultured_Lactarius -----
AB571500_Uncultured_ectomycorrhizal -----
FJ596848_Lactarius_uvidus -----
UDB016000_Russula_olivacea -----
UDB011195_Russula_olivacea -----
KU356732_Russula_olivacea_NEWLY_GENERATED -----
HQ204707_Uncultured_Russula -----
UDB000354_Russula_olivacea -----
UDB000322_Russula_olivacea -----
UDB000323_Russula_olivacea -----
AB973750_Russula_sp aagtctcctggaatggagcgtcgtagaggggtgagaatcccgtctttggcacggacgcaccagggtctttgtgatgcgctctcgaagagtcgagttgttg
JX425373_Russula_olivacea -----
UDB013255_Russula -----
HF674530_uncultured_Russula -----
HF674533_uncultured_Russula -----
HF674570_uncultured_Russula -----
HF674531_uncultured_Russula -----
HF674592_uncultured_Russula -----
HF674578_uncultured_Russula -----

HF674534_uncultured_Russula -----
HF674638_uncultured_Russula -----
gi|333774799|emb|FR852106.1| -----
KM576534_Russula_sp -----
HF674551_uncultured_Russula -----
HF674569_uncultured_Russula -----
HF674572_uncultured_Russula -----
HF674549_uncultured_Russula -----
JX425382_Russula_sp -----
UDB013274_Russula aagtcctcctggaatggagcgtcgtagaggggtgagaatcccgtctttggcacggacgcaccaggccttttggatgcgctctcgaagagtcgagttgtttg

HE681772_Astraeus_sp -----
HE681774_Astraeus_sp -----
HE681775_Astraeus_sp -----
HE681773_Astraeus_sp -----
KU356730_Astraeus_sirindhorniae_NEWLY_GENERATED -----
AB848536_Lactarius_sp -----
KC791081_Uncultured_fungus -----
KJ705210_Lactarius_argillaceifolius -----
KJ705211_Lactarius_argillaceifolius -----
DQ093852_Lactarius_pallescens -----
GU234059_Lactarius_violascens -----
KJ742409_Lactarius_pseudouvidus -----
KJ742392_Lactarius_brunneoviolaceus -----
KJ742411_Lactarius_sp -----
KJ742402_Lactarius_luridus -----
KJ742403_Lactarius_luridus -----
KJ742404_Lactarius_luridus -----
KM576498_Lactarius_sp -----
KJ742407_Lactarius_luridus -----
KF241547_Lactarius_luridus -----
JX625292_Uncultured_Lactarius -----
KU356731_Lactarius_luridus_NEWLY_GENERATED -----
KJ742405_Lactarius_luridus -----
KJ742406_Lactarius_luridus -----
KJ742395_Lactarius_brunneoviolaceus -----
UDB011691_Lactarius_luridus -----
KJ742393_Lactarius_brunneoviolaceus -----
UDB023551_Lactarius_luridus -----
UDB023493_Lactarius_luridus -----
GU234088_Lactarius_nanus -----
KJ742410_Lactarius_pseudouvidus -----
EF218785_ectomycorrhiza_Lactarius -----
AB588960_Uncultured_ectomycorrhizal -----
KJ742390_Lactarius_aspideus -----
UDB019724_Lactarius_aspideus -----
GU234051_Lactarius_pseudouvidus -----
GU184028_Uncultured_Lactarius -----
GU184027_Uncultured_Lactarius -----
AB571500_Uncultured_ectomycorrhizal -----
FJ596848_Lactarius_uvidus -----
UDB016000_Russula_olivacea -----
UDB011195_Russula_olivacea -----
KU356732_Russula_olivacea_NEWLY_GENERATED -----
HQ204707_Uncultured_Russula -----
UDB000354_Russula_olivacea -----
UDB000322_Russula_olivacea -----
UDB000323_Russula_olivacea -----
AB973750_Russula_sp ggaatgcagctcaaaatgggtggaactccatctaaagctaaatattggcgagagaccgatagcgaacaagtaccgtgagggaaagatgaaaagcactt
JX425373_Russula_olivacea -----
UDB013255_Russula -----
HF674530_uncultured_Russula -----
HF674533_uncultured_Russula -----

HF674570_uncultured_Russula -----
HF674531_uncultured_Russula -----
HF674592_uncultured_Russula -----
HF674578_uncultured_Russula -----
HF674534_uncultured_Russula -----
HF674638_uncultured_Russula -----
gi|333774799|emb|FR852106.1| -----
KM576534_Russula_sp -----
HF674551_uncultured_Russula -----
HF674569_uncultured_Russula -----
HF674572_uncultured_Russula -----
HF674549_uncultured_Russula -----
JX425382_Russula_sp -----
UDB013274_Russula ggaatgcagctcaaaatgggtgg-----

HE681772_Astraeus_sp -----
HE681774_Astraeus_sp -----
HE681775_Astraeus_sp -----
HE681773_Astraeus_sp -----
KU356730_Astraeus_sirindhorniae_NEWLY_GENERATED -----
AB848536_Lactarius_sp -----
KC791081_Uncultured_fungus -----
KJ705210_Lactarius_argillaceifolius -----
KJ705211_Lactarius_argillaceifolius -----
DQ093852_Lactarius_pallescens -----
GU234059_Lactarius_violascens -----
KJ742409_Lactarius_pseudouvidus -----
KJ742392_Lactarius_brunneoviolaceus -----
KJ742411_Lactarius_sp -----
KJ742402_Lactarius_luridus -----
KJ742403_Lactarius_luridus -----
KJ742404_Lactarius_luridus -----
KM576498_Lactarius_sp -----
KJ742407_Lactarius_luridus -----
KF241547_Lactarius_luridus -----
JX625292_Uncultured_Lactarius -----
KU356731_Lactarius_luridus_NEWLY_GENERATED -----
KJ742405_Lactarius_luridus -----
KJ742406_Lactarius_luridus -----
KJ742395_Lactarius_brunneoviolaceus -----
UDB011691_Lactarius_luridus -----
KJ742393_Lactarius_brunneoviolaceus -----
UDB023551_Lactarius_luridus -----
UDB023493_Lactarius_luridus -----
GU234088_Lactarius_nanus -----
KJ742410_Lactarius_pseudouvidus -----
EF218785_ectomycorrhiza_Lactarius -----
AB588960_Uncultured_ectomycorrhizal -----
KJ742390_Lactarius_aspideus -----
UDB019724_Lactarius_aspideus -----
GU234051_Lactarius_pseudouvidus -----
GU184028_Uncultured_Lactarius -----
GU184027_Uncultured_Lactarius -----
AB571500_Uncultured_ectomycorrhizal -----
FJ596848_Lactarius_uvidus -----
UDB016000_Russula_olivacea -----
UDB011195_Russula_olivacea -----
KU356732_Russula_olivacea_NEWLY_GENERATED -----
HQ204707_Uncultured_Russula -----
UDB000354_Russula_olivacea -----
UDB000322_Russula_olivacea -----
UDB000323_Russula_olivacea -----
AB973750_Russula_sp tggaaagagagtgaacagctacgtgaaattggtgaaagggaaacgcttgaagtcagtcgcgctcgaccgagactcagccttgccctcgctcggtgtatttc

JX425373_Russula_olivacea
UDB013255_Russula
HF674530_uncultured_Russula
HF674533_uncultured_Russula
HF674570_uncultured_Russula
HF674531_uncultured_Russula
HF674592_uncultured_Russula
HF674578_uncultured_Russula
HF674534_uncultured_Russula
HF674638_uncultured_Russula
gi|333774799|emb|FR852106.1|
KM576534_Russula_sp
HF674551_uncultured_Russula
HF674569_uncultured_Russula
HF674572_uncultured_Russula
HF674549_uncultured_Russula
JX425382_Russula_sp
UDB013274_Russula

HE681772_Astraeus_sp
HE681774_Astraeus_sp
HE681775_Astraeus_sp
HE681773_Astraeus_sp
KU356730_Astraeus_sirindhorniae_NEWLY_GENERATED
AB848536_Lactarius_sp
KC791081_Uncultured_fungus
KJ705210_Lactarius_argillaceifolius
KJ705211_Lactarius_argillaceifolius
DQ093852_Lactarius_pallescens
GU234059_Lactarius_violascens
KJ742409_Lactarius_pseudouvidus
KJ742392_Lactarius_brunneoviolaceus
KJ742411_Lactarius_sp
KJ742402_Lactarius_luridus
KJ742403_Lactarius_luridus
KJ742404_Lactarius_luridus
KM576498_Lactarius_sp
KJ742407_Lactarius_luridus
KF241547_Lactarius_luridus
JX625292_Uncultured_Lactarius
KU356731_Lactarius_luridus_NEWLY_GENERATED
KJ742405_Lactarius_luridus
KJ742406_Lactarius_luridus
KJ742395_Lactarius_brunneoviolaceus
UDB011691_Lactarius_luridus
KJ742393_Lactarius_brunneoviolaceus
UDB023551_Lactarius_luridus
UDB023493_Lactarius_luridus
GU234088_Lactarius_nanus
KJ742410_Lactarius_pseudouvidus
EF218785_ectomycorrhiza_Lactarius
AB588960_Uncultured_ectomycorrhizal
KJ742390_Lactarius_aspideus
UDB019724_Lactarius_aspideus
GU234051_Lactarius_pseudouvidus
GU184028_Uncultured_Lactarius
GU184027_Uncultured_Lactarius
AB571500_Uncultured_ectomycorrhizal
FJ596848_Lactarius_uvidus
UDB016000_Russula_olivacea
UDB011195_Russula_olivacea
KU356732_Russula_olivacea_NEWLY_GENERATED
HQ204707_Uncultured_Russula

UDB000354_Russula_olivacea -----
UDB000322_Russula_olivacea -----
UDB000323_Russula_olivacea -----
AB973750_Russula_sp tccggccgacgggtcagcatcaatctttaccctcggataatggcgagggaaatgtgacacctttacgggtgttatagtctctcgtcgcgatgcgaggggtg
JX425373_Russula_olivacea -----
UDB013255_Russula -----
HF674530_uncultured_Russula -----
HF674533_uncultured_Russula -----
HF674570_uncultured_Russula -----
HF674531_uncultured_Russula -----
HF674592_uncultured_Russula -----
HF674578_uncultured_Russula -----
HF674534_uncultured_Russula -----
HF674638_uncultured_Russula -----
gi|333774799|emb|FR852106.1| -----
KM576534_Russula_sp -----
HF674551_uncultured_Russula -----
HF674569_uncultured_Russula -----
HF674572_uncultured_Russula -----
HF674549_uncultured_Russula -----
JX425382_Russula_sp -----
UDB013274_Russula -----

HE681772_Astraeus_sp -----
HE681774_Astraeus_sp -----
HE681775_Astraeus_sp -----
HE681773_Astraeus_sp -----
KU356730_Astraeus_sirindhorniae_NEWLY_GENERATED -----
AB848536_Lactarius_sp -----
KC791081_Uncultured_fungus -----
KJ705210_Lactarius_argillaceifolius -----
KJ705211_Lactarius_argillaceifolius -----
DQ093852_Lactarius_pallescens -----
GU234059_Lactarius_violascens -----
KJ742409_Lactarius_pseudouvidus -----
KJ742392_Lactarius_brunneoviolaceus -----
KJ742411_Lactarius_sp -----
KJ742402_Lactarius_luridus -----
KJ742403_Lactarius_luridus -----
KJ742404_Lactarius_luridus -----
KM576498_Lactarius_sp -----
KJ742407_Lactarius_luridus -----
KF241547_Lactarius_luridus -----
JX625292_Uncultured_Lactarius -----
KU356731_Lactarius_luridus_NEWLY_GENERATED -----
KJ742405_Lactarius_luridus -----
KJ742406_Lactarius_luridus -----
KJ742395_Lactarius_brunneoviolaceus -----
UDB011691_Lactarius_luridus -----
KJ742393_Lactarius_brunneoviolaceus -----
UDB023551_Lactarius_luridus -----
UDB023493_Lactarius_luridus -----
GU234088_Lactarius_nanus -----
KJ742410_Lactarius_pseudouvidus -----
EF218785_ectomycorrhiza_Lactarius -----
AB588960_Uncultured_ectomycorrhizal -----
KJ742390_Lactarius_aspideus -----
UDB019724_Lactarius_aspideus -----
GU234051_Lactarius_pseudouvidus -----
GU184028_Uncultured_Lactarius -----
GU184027_Uncultured_Lactarius -----
AB571500_Uncultured_ectomycorrhizal -----
FJ596848_Lactarius_uvidus -----

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UDB016000_Russula_olivacea -----
UDB011195_Russula_olivacea -----
KU356732_Russula_olivacea_NEWLY_GENERATED -----
HQ204707_Uncultured_Russula -----
UDB000354_Russula_olivacea -----
UDB000322_Russula_olivacea -----
UDB000323_Russula_olivacea -----
AB973750_Russula_sp ggattgaggaactcagcacgcccctcgggcgtcgggtcctt
JX425373_Russula_olivacea -----
UDB013255_Russula -----
HF674530_uncultured_Russula -----
HF674533_uncultured_Russula -----
HF674570_uncultured_Russula -----
HF674531_uncultured_Russula -----
HF674592_uncultured_Russula -----
HF674578_uncultured_Russula -----
HF674534_uncultured_Russula -----
HF674638_uncultured_Russula -----
gi|333774799|emb|FR852106.1| -----
KM576534_Russula_sp -----
HF674551_uncultured_Russula -----
HF674569_uncultured_Russula -----
HF674572_uncultured_Russula -----
HF674549_uncultured_Russula -----
JX425382_Russula_sp -----
UDB013274_Russula -----

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End;

Begin comment;

Absolute positions using KJ742409_Lactarius_pseudouvidus (956 bp.) as standard: **SSU:** 1-34 **ITS1:** 35-516 (**SRP RNA:** 78-343) **5.8S:** 517-674 **ITS2:** 675-927 **LSU:** 928-956

End;