

Supplemental Table S3. Genes associated with each of the variable regions

Region	Locus tag ^a	Coordinates in genome ^a		Gene symbol	Product
VRL	DNO_0173	181552	184944	<i>vrlS</i>	DEAD-DEAH box helicase domain protein
VRL	DNO_0174	184934	185782	<i>vrlR</i>	hypothetical protein
VRL	DNO_0175	185801	186556	<i>vrlQ</i>	conserved hypothetical protein VrlQ
VRL	DNO_0176	186556	188556	<i>vrlP</i>	conserved hypothetical protein VrlP
VRL	DNO_0177	188553	191450	<i>vrlO</i>	DEAD helicase domain protein VrlO
VRL	DNO_0178	191454	191552	<i>vrlN</i>	hypothetical protein VrlN
VRL	DNO_0179	191549	193036	<i>vrlM</i>	hypothetical protein VrlM
VRL	DNO_0180	193039	195828	<i>vrlL</i>	S-adenosyl-L-methionine-dependent methyltransferases family protein VrlL
VRL	DNO_0181	195920	199651	<i>vrlK</i>	conserved hypothetical protein VrlK
VRL	DNO_0182	199648	200163	<i>vrlJ</i>	conserved hypothetical protein VrlJ
VRL	DNO_0183	200173	200376	<i>vrlI</i>	conserved hypothetical protein VrlI
VRL	DNO_0184	200503	201060	<i>vrlH</i>	conserved hypothetical protein VrlH
VRL	DNO_0185	201057	201854	<i>vrlG</i>	glutamine amidotransferase domain protein VrlG
VRL	DNO_0186	201839	202360	<i>vrlF</i>	conserved hypothetical protein VrlF
VRL	DNO_0187	202372	203328	<i>vrlE</i>	conserved hypothetical protein VrlE
VRL	DNO_0188	203574	203832	<i>vrlD</i>	conserved hypothetical protein VrlD
VRL	DNO_0189	203845	206472	<i>vrlC</i>	conserved hypothetical protein VrlC
VRL	DNO_0190	206539	206998	<i>vrlB</i>	hypothetical protein VrlB
VRL	DNO_0191	207395	207039	<i>vrlA</i>	hypothetical protein VrlA
HsdS	DNO_0220	235942	239040	<i>hsdR</i>	type I site-specific deoxyribonuclease
HsdS	DNO_0221	239033	239476		conserved hypothetical protein
HsdS	DNO_0222	239473	240711	<i>hsdS</i>	type I restriction modification DNA specificity domain protein
HsdS	DNO_0223	240702	243182	<i>hsdM</i>	type I restriction-modification system, M subunit
RTX	DNO_0334	366740	358452		potential RTX family protein

OMP1	DNO_0382	423496	421655	<i>omp1B</i>	outer membrane protein 1B
OMP1	DNO_0383	423569	425506	<i>omp1E</i>	outer membrane protein 1E
OMP1	DNO_0384	427914	425776	<i>omp1D</i>	outer membrane protein 1D
OMP1	DNO_0385	427989	429788	<i>omp1A</i>	outer membrane protein 1A
PGR	DNO_0690	741913	745275		PGR
Bacteriophage	DNO_0738	788795	788697		hypothetical protein
Bacteriophage	DNO_0739	789692	788865		conserved hypothetical membrane protein
Bacteriophage	DNO_0740	789960	789685		hypothetical protein
Bacteriophage	DNO_0741	790168	789863		hypothetical protein
Bacteriophage	DNO_0742	790956	790165		hypothetical protein
Bacteriophage	DNO_0743	792208	790934		phage terminase, large subunit
Bacteriophage	DNO_0744	793098	792205		conserved hypothetical protein
Bacteriophage	DNO_0744	793662	793135		hypothetical protein
Bacteriophage	DNO_0745	795158	793659		phage virion morphogenesis-like protein
Bacteriophage	DNO_0746	796067	795669		hypothetical protein
Bacteriophage	DNO_0747	796899	796078		hypothetical protein
Bacteriophage	DNO_0748	797888	796902		conserved hypothetical protein
Bacteriophage	DNO_0749	798377	797910		conserved hypothetical protein
Bacteriophage	DNO_0750	798799	798374		phage virion morphogenesis-like protein
Bacteriophage	DNO_0751	799247	798780		hypothetical protein
Bacteriophage	DNO_0752	800011	799244		conserved hypothetical protein
Bacteriophage	DNO_0753	800241	800014		hypothetical protein
Bacteriophage	DNO_0754	800458	800249		hypothetical protein
Bacteriophage	DNO_0755	804466	800495		phage tail tape measure family protein
Bacteriophage	DNO_0756	804867	804463		conserved hypothetical protein
Bacteriophage	DNO_0757	808505	804876		conserved hypothetical protein
Bacteriophage	DNO_0758	809373	808507		conserved hypothetical protein
Bacteriophage	DNO_0759	809710	809285		hypothetical protein

Bacteriophage	DNO_0760	811383	809707		conserved hypothetical protein
Bacteriophage	DNO_0761	811619	811392		hypothetical protein
Bacteriophage	DNO_0762	812055	812618		hypothetical protein
Bacteriophage	DNO_0763	812666	814279		helicase family protein
Bacteriophage	DNO_0764	814328	815422		hypothetical protein
Bacteriophage	DNO_0765	815574	816242		hypothetical protein
Bacteriophage	DNO_0766	816363	816617		hypothetical protein
Bacteriophage	DNO_0767	816635	817090	<i>ssb-2</i>	single-strand binding protein
Bacteriophage	DNO_0768	817103	817960		conserved hypothetical protein
Bacteriophage	DNO_0769	817957	818562		bacteriophage recombination function protein
Bacteriophage	DNO_0770	818588	818920		hypothetical protein
Bacteriophage	DNO_0771	818920	819207		hypothetical protein
Bacteriophage	DNO_0772	819315	820748		conserved hypothetical protein
Bacteriophage	DNO_0773	820877	821794	<i>regA2</i>	regulatory protein RegA2
Bacteriophage	DNO_0774	822459	822196		hypothetical protein
Bacteriophage	DNO_0775	823347	822460		conserved hypothetical protein
Bacteriophage	DNO_0776	824116	823352	<i>dnaC</i>	DNA replication protein DnaC
Bacteriophage	DNO_0778	825878	824363		hypothetical protein
Bacteriophage	DNO_0780	826611	826234		endodeoxyribonuclease RusA family
Bacteriophage	DNO_0781	826961	826605		hypothetical protein
Bacteriophage	DNO_0782	827212	826961		conserved hypothetical protein
Bacteriophage	DNO_0783	827603	827196		hypothetical protein
Bacteriophage	DNO_0784	828101	829300		bacteriophage P4-like integrase
Vap1	DNO_0262	286641	286751		hypothetical protein
Vap1	DNO_0263	286748	287446	<i>regA1</i>	regulatory protein RegA1
Vap1	DNO_0265	289759	290040	<i>vapD2</i>	virulence-associated protein VapD2
Vap1	DNO_0266	290906	292216	<i>vapE2</i>	virulence-associated protein VapE2
Vap1	DNO_0267	292206	292553	<i>vapF</i>	virulence-associated protein VapF

Vap1	DNO_0268	292517	292386		hypothetical protein
Vap1	DNO_0269	292557	292778	<i>vapG2</i>	virulence-associated protein VapG2
Vap1	DNO_0270	293468	293728		hypothetical protein
Vap1	DNO_0271	293475	293128	<i>vapA2</i>	virulence-associated protein VapA2
Vap1	DNO_0272	293791	294117	<i>vapI</i>	virulence-associated protein VapI
Vap1	DNO_0273	294127	294402		plasmid maintenance system killer family protein
Vap1	DNO_0274	295660	295301	<i>toxA1</i>	plasmid maintenance system killer family protein ToxA1
Vap1	DNO_0275	295981	295673	<i>vapA1</i>	virulence-associated protein VapA1
Vap1	DNO_0276	296547	296317	<i>vapB1</i>	virulence-associated protein VapB1
Vap1	DNO_0277	296951	296544	<i>vapC1</i>	virulence-associated protein VapC1
Vap1	DNO_0278	297073	297354	<i>vapD1</i>	virulence-associated protein VapD1
Vap1	DNO_0279	297992	299305	<i>vapE1</i>	virulence-associated protein VapE1
Vap1	DNO_0280	299401	299607	<i>vapG1</i>	virulence-associated protein VapG1
Vap1	DNO_0281	299586	299891	<i>vapH</i>	virulence-associated protein VapH
Vap1	DNO_0282	299986	301191	<i>intA1</i>	integrase A1
Vap2	DNO_1038	1074787	1075281	<i>intB2</i>	integrase B2
Vap2	DNO_1039	1076208	1075849	<i>toxA2</i>	plasmid maintenance system killer family protein ToxA2
Vap2	DNO_1040	1076529	1076221	<i>vapA3</i>	virulence-associated protein VapA3
Vap2	DNO_1041	1077095	1076865	<i>vapB2</i>	virulence-associated protein VapB2
Vap2	DNO_1042	1077499	1077092	<i>vapC2</i>	virulence-associated protein VapC2
Vap2	DNO_1043	1079043	1080356	<i>vapE3</i>	virulence-associated protein VapE3
Vap2	DNO_1044	1080452	1080673	<i>vapG3</i>	virulence-associated protein VapG3
Vap2	DNO_1045	1081068	1082273	<i>intA2</i>	integrase A2

^aAccession number: NC_009446 for *D. nodosus* strain VCS1703A