

8
9**Table S2.** Gene annotation table for the *svt* cluster

Gene	Length (bp)	Proposed function	Homologous protein	Origin	Identity (aa %)	MIBiG Protein ID
<i>Svt1</i>	747	Thioesterase	VirJ	<i>Streptomyces virginiae</i>	28	BAF50718.1
<i>Svt2</i>	957	Chlorinating enzyme	NunB2	<i>Pseudomonas sp. In5</i>	61	KPN90373.1
<i>Svt3</i>	264	Acyl Carrier Protein (ACP)	Ecm13	<i>Streptomyces lasaliensis</i>	46	BAE98162.1
<i>Svt4</i>	219	MbtH-like protein	Tlo24	<i>Streptomyces canus</i>	74	ALV86870.1
<i>Svt5</i>	927	Dehydrogenase alpha subunit	Qcn7	<i>Streptomyces melanovinaceus</i>	71	BAO84856.1
<i>Svt6</i>	231	Acyl Carrier Protein (ACP)	-	<i>Streptomyces lusitanus</i>	58	AGD80610.1
<i>Svt7</i>	2,142	Dehydrogenase beta subunit	Qcn9	<i>Streptomyces melanovinaceus</i>	58	BAO84858.1
<i>Svt8</i>	1,011	3-oxoacyl-synthase III	Qcn10	<i>Streptomyces melanovinaceus</i>	68	BAO84859.1
<i>Svt9</i>	1,311	Hypothetical protein	NybQ	<i>Streptomyces albus subsp. chlorinus</i>	43	AYV61418.1
<i>Svt10</i>	696	Regulator	HmtD	<i>Streptomyces himastatinicus ATCC 53653</i>	62	CBZ42138.1
<i>Svt11</i>	648	Negative regulator	HmtC	<i>Streptomyces himastatinicus ATCC 53653</i>	66	CBZ42137.1
<i>Svt12</i>	1,350	Monooxygenase	HmtM	<i>Streptomyces himastatinicus ATCC 53653</i>	62	CBZ42147.1
<i>Svt13</i>	1,650	AMP-binding protein	MfnK	<i>Streptomyces drozdowiczii</i>	63	AJV88383.1
<i>Svt14</i>	279	Acyl Carrier Protein (ACP)	MfnL	<i>Streptomyces drozdowiczii</i>	51	AJV88384.1
<i>Svt15</i>	768	Type II thioesterase	RmpR	<i>Amycolatopsis sp.</i>	37	AWH12637.1
<i>Svt16</i>	1,977	C-methyltransferase	CysS	<i>Cystobacter sp. Cbv34</i>	40	AKP45384.1
<i>Svt17</i>	1,371	Hydroxymethyltransferase	AmiS	<i>Streptomyces vinaceusdrappus</i>	59	AEF16058.1
<i>Svt18</i>	5,514	NRPS	HmtL	<i>Streptomyces himastatinicus ATCC 53653</i>	36	CBZ42146.1
<i>Svt19</i>	16,353	NRPS	HmtL	<i>Streptomyces himastatinicus ATCC 53653</i>	52	CBZ42146.1
<i>Svt20</i>	1,224	Cytochrome P450	SceD	<i>Streptomyces sp. SD85</i>	49	ANH11399.1
<i>Svt21</i>	183	Ferredoxin	SceC	<i>Streptomyces sp. SD85</i>	52	ANH11398.1
<i>Svt22</i>	1,209	Cytochrome P450	-	<i>Streptomyces sp. FXJ7.023</i>	52	AGC09527.1
<i>Svt23</i>	783	Amidinotransferase	Ulm27	<i>Streptomyces sp. KCB13F003</i>	64	ATU31804.1
<i>Svt24</i>	1,968	Adenylation domain-containing protein	ABB07_39130	<i>Streptomyces incarnatus</i>	61	AKJ15827.1
<i>Svt25</i>	1,413	Beta-lactamase family protein	Mur30	<i>Streptomyces sp. NRRL 30471</i>	38	ADZ45342.1
<i>Svt26</i>	792	ABC transporter	STRAU_0340	<i>Streptomyces aurantiacus JA 4570</i>	43	EPH46601.1
<i>Svt27</i>	1,077	ABC transporter	STRAU_0339	<i>Streptomyces aurantiacus JA 4570</i>	56	EPH46600.1
<i>Svt28</i>	3,144	Transcriptional regulator	Sare_4552	<i>Salinispora arenicola CNS-205</i>	35	ABW00321.1

10