

Region	Type	Form	%	Length_bp	Most_Similar_Cluster	Similarity_%	Compound_Type	Known_compound	Antifungal_potential	Priority	Priority score	Notes
1	TgII-KS, TgPKS	88637	198654	52017	leuamycin	2	NRP + Polyketide (Module Type I + Trans-AT Type I)	Leuamycin	NO	HIGHLY NOVEL	★ ★	Extremely novel (9%) bio-antifungal not antifungal
2	Terpene	166891	191554	247453	isotetradecen	100	Terpene	Isotetradecen	NO	KNOWN	★	Terpene - coextensive
3	Lanthipeptide-class-i	246898	270387	23209	None	0	Lanthipeptide	Unknown	Maybe	HIGHLY NOVEL	★ ★ ★	Completely novel - no database match
4	NRPS	494260	544087	49827	coelichelin	100	NRP	Coelichelin	NO	KNOWN	★	Siderophore - iron acquisition
5	RIPP-LIKE	791701	799942	8241	4-informalpeptin	42	RIPP-Lanthipeptide	Informalpeptin	YES	NOVEL	★ ★ ★ ★	TOP 3 - Novel antimicrobial peptide
6	TgPKS	1295118	197959	38822	leuamycin	8	Polyamide	Leuamycin	NO	HIGHLY NOVEL	★ ★ ★	Highly novel - some antimicrobial activity reported
7	ectoine	1986160	2003559	10389	ectoine	100	other	Ectoine	NO	KNOWN	★	Other - stress compound
8	Melanin	293936	2948975	10595	istamycin	4	saccharide	Istamycin	NO	HIGHLY NOVEL	★ ★	Novel but melanin production
9	Siderophore	3034632	3045603	10971	Desterrioxamin B/E	83	NRP	Desterrioxamin	NO	KNOWN	★	Siderophore - iron acquisition
10	NRPS	352482	3603807	79079	CDA1b/2a/2b/2c/2d/4b	87	NRP + Co-dependent (peptidopeptide)	CDA family	YES	SIMILAR	★ ★ ★ ★	TOP 1 - PROVEN ANTIMICROBIAL
11	TgPKS	549474	558773	70082	leuamycin	100		Acetylactone	NO	KNOWN	★	Red pigment antibiotic
12	Terpene	5671275	5691936	20561	abfallavone	100	Polyketide	Alfallavone	NO	KNOWN	★	Sesquiterpene volatile
13	TgPKS	5751845	5824487	72542	Spore pigment	66	NRP	Spore pigment	NO	SIMILAR	★	Polyketide pigment for spores
14	Siderophore	6340691	6340698	10277	None	0	NRP + Polyketide	Unknown	NO	HIGHLY NOVEL	★ ★	Novel siderophore - no match
15	NRPS-like + TgPKS + prodigiosin	6440210	6472026	42581	undecaprodigiosin	100	Undecaprodigiosin	Undecaprodigiosin	NO	KNOWN	★	Red pigment antibiotic
16	NRPS	6622342	6642459	11316	None	0	NRP	Unknown	NO	HIGHLY NOVEL	★	New compound further
17	Terpene	6656904	6676224	19320	Geosmin	100	Terpene	Geosmin	NO	KNOWN	★	Earthy odor compound
18	siderophore	6842315	6855522	13207	Enduracidin	6	NRP	Enduracidin-like	NO	HIGHLY NOVEL	★ ★	Only 6% similar
19	TgPKS + butyrylpeptid	6881330	6951337	70202	coelicyclin P1	100	Polyketide-peptidate Type I	Coelicyclin P1	NO	KNOWN	★	Polyketide signaling molecule
20	Thioether-NRP + NRPS	703892	712424	54183	Neopeltocyclin	40		Neopeltocyclin	YES	NOVEL	★ ★ ★	TOP 2 - Noveltiy (NRPS)
21	Lanthipeptide-class-ii	7409654	7432456	22782	SagB	100	RIPP-Lanthipeptide	SagB	NO	KNOWN	★	Morphological development peptide
22	Terpene	750630	7532117	25869	Hopene	100	Polyketide	Hopene	NO	KNOWN	★	Membrane hopanoid
23	PKS-like + TgPKS	7570412	7618655	48143	arseno-polyketide	100	NRP	Arseno-polyketide	NO	KNOWN	★	Arsenate polyketide
24	Lanthipeptide-class-i	7682907	7708350	26453	None	0	Unknown	Unknown	NO	HIGHLY NOVEL	★ ★	Novel lanthipeptide - no match
25	other	7897445	8034569	78233	germanicolin	100	other	Germanicolin	NO	KNOWN	★	Autumnal polyketide
26	Indole	8269837	8290764	21127	5-isoprenylindole-3-carboxylate	28	NRP	5-isoprenylindole	NO	NOVEL	★ ★	Novel indole derivative
27	TgPKS + NRPS + terpene	8475102	8548352	73250	coelobactin	100	NRP	Coelobactin	NO	KNOWN	★	Zinc-binding siderophore