

**Table S5. A list of the sequenced active constructs of configuration 4, supplemented with the sequences and numbers of their separate tiles and the growth inhibition percentages in absence and presence of EDTA.**

Nr	CBD	EAD	Linker	OMP	CBD	EAD	Linker	OMP	GI% without EDTA	GI% with EDTA
1	PVP-SE1gp146-CBD	EL188-EAD	Flexible short linker	Sarcotoxin IA	CBD3	EAD9	link1	OMP11	98	95
2	201phi2-1gp229-CBD	XccLys	Rigid long helix	Sarcotoxin IA	CBD5	EAD15	link4	OMP11	96	67
3	PVP-SE1gp146-CBD	vB_PsyM_KIL1gp019	Flexible short linker	Sushi 1	CBD3	EAD14	link1	OMP16	96	56
4	KZ144-CBD	XccLys	Flexible short linker	TP4	CBD1	EAD15	link1	OMP18	95	87
5	KZ144-CBD	XccLys	Flexible short linker	TP4	CBD1	EAD15	link1	OMP18	92	95
6	201phi2-1gp229-CBD	K11gp3.6	Rigid short coil	Piscidin-like peptide	CBD5	EAD3	link6	OMP21	38	98
7	KZ144-CBD	Acibel007	Rigid long coil	3IQ2	CBD1	EAD13	link5	OMP25	95	97
8	KZ144-CBD w/ser	PVP-SE1gp146-EAD	Rigid long coil	PAM2	CBD6	EAD10	link5	OMP23	65	97
9	PVP-SE1gp146-CBD	K11gp3.5	Rigid long helix	SSL-25	CBD3	EAD3	link4	OMP42	97	98
10	KZ144-CBD	EL188-EAD	Flexible short linker	FR2	CBD1	EAD9	link1	OMP27	15	96
11	201phi2-1gp229-CBD	vB_PsyM_KIL1gp019	Rigid short helix	LfcinB	CBD5	EAD14	link3	OMP29	59	97
12	KZ144-CBD	XccLys	Rigid long helix	Indolicidin	CBD1	EAD15	link4	OMP4	95	97
13	PVP-SE1gp146-CBD	Acibel007	Rigid long helix	Dermaseptin S4L7KA14K	CBD3	EAD13	link4	OMP32	93	98
14	KZ144-CBD	PsP3gp10	Rigid long coil	Cathelicidin-BF antimicrobial peptide	CBD1	EAD1	link5	OMP35	90	96
15	KZ144-CBD	PVP-SE1gp146-EAD	Flexible short linker	Cathelicidin-BF antimicrobial peptide	CBD1	EAD10	link1	OMP35	95	98
16	201phi2-1gp229-CBD	EL188-EAD	Rigid long helix	Cathelicidin-BF antimicrobial peptide	CBD5	EAD9	link4	OMP35	96	94
17	PVP-SE1gp146-CBD	EL188-EAD	Rigid long coil	Cathelicidin-BF antimicrobial peptide	CBD3	EAD9	link5	OMP35	36	97
18	KZ144-CBD w/ser	Acibel007	Rigid long coil	Cathelicidin-BF antimicrobial peptide	CBD6	EAD13	link5	OMP35	97	38
19	201phi2-1gp229-CBD	vB_PsyM_KIL1gp019	Rigid long coil	Cathelicidin-BF antimicrobial peptide	CBD5	EAD14	link5	OMP35	96	96
20	KZ144-CBD w/ser	Vpept	Rigid long helix	Cathelicidin-BF antimicrobial peptide	CBD6	EAD17	link4	OMP35	95	58

21	201phi2-1gp229-CBD	K11gp3.7	Rigid long helix	Cathelicidin-BF antimicrobial peptide	CBD5	EAD3	link4	OMP35	65	95
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