

**S1 Table. Identification of amplified filaments by SeqMatch function (Ribosomal Database Project, RDPII).**

Date	Query name	S_ab_score	Sequence name (RDP SeqMatch to cultured isolates)	Form
12/8/08	MDA1*	0,615	" <i>Beggiatoa</i> " sp. MS-81-1c;AF1102276	Gammaproteobacterium
12/8/08	MDA2*	0,617	" <i>Beggiatoa</i> " sp. MS-81-1c;AF1102276	Gammaproteobacterium
12/8/08	MDA3	0,797	<i>Maorithyas hadalis</i> gill thioautotrophic symbiont II; AB188780	Gammaproteobacterium
12/8/08	MDA5*	0,613	" <i>Beggiatoa</i> " sp. MS-81-1c;AF1102276	Gammaproteobacterium
12/8/08	MDA6np	0,615	<i>Desulfonema magnum</i> (T); DSM2077	Deltaproteobacterium

Asterisks indicate the MDA-DNAs selected to be sequenced by 454 GS FLX technology.