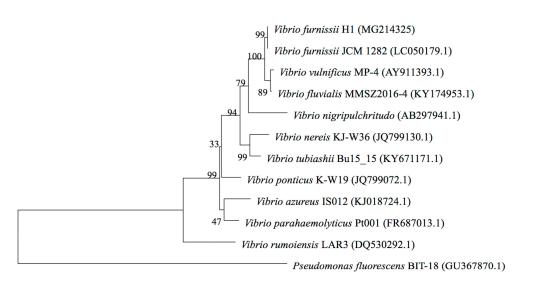
## Supplementary Materials: Characterization of a Novel 1 Alginate Lyase from Marine Bacterium Vibrio 2 furnissii H1 3

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- 6



0.005

7 Figure S1. Phylogenetic tree for strain H1 and related strains based on the 16S rRNA gene sequence. 8 Numbers after the names of organisms are the accession numbers of the published sequences. The 9 phylogenetic tree was inferred by using the neighbour-joining methods. The software MEGA 5.0 10 (Biodesign Institute, Arizona State University, Tempe, AZ, USA) was used for analysis

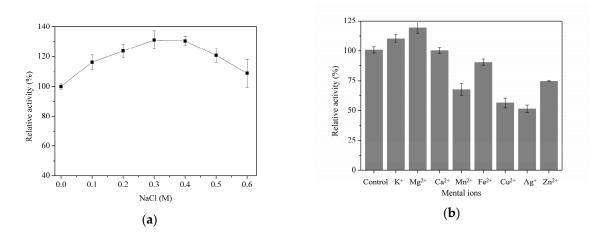




Figure S2. Effects of NaCl concentration and metal ions on the activity of AlyH1. (a) Influences of the concentration of NaCl; and (b) Influences of the metal ions. The enzyme activity without metal ions served as the control with the corresponding enzyme activity designated as 100%

1 CGGTCTGAGC TCCGGGAAAT GTTGGCAGAA GATTATGGCG AGCCTGCGAA TAACTTTGCG 61 ATTAAAGCCA ATGATAAAGT CGATGAGTAT GGTTCAGTCG GTGGCCGTTT AAGTGCAACT 121 CTTTCTGTTG ATTGGGTGAG TACGAGTGGT AATGAATCCA AATCAGGTGC TTATGCTGTG 181 ATTGTTGGTC AAATCCATGG TTCGAATAAT GAACCGTTGA AAATTGTTTA CCGCAAATTG CCAAATCATG AGTTTGGTTC CTTGTCTTGG AACTATGAAA CAAACCCCGT TGAAAAAGCG 241 301 GATCGCACCG ATATTAAACA CGATATTTTC GGCAAAAATA AGCTCACCAG TAAAGATGCA 361 GATCCACAAG ATGGTATTCG TTTAGGTGAG GTTTTCTCTT ATGATGTGAA CGTGAAAGAT AACGTCATGC ACCTGACCTT TAAGAAAAAC TTAGGTCAAG ATGATGAAGT AACCAAAACA 421 481 TACGATTTAG ATCTAAGTAA GCCATATCCA AATCAAGCCA AAGATACCAG CTATGCGCAA 541 GATTGGATGT ACTTTAAGGC CGGCAACTAT

14

Figure S3. Partial nucleotide sequence of the alyH1.