**Table S5**: **Genes encoding for cellulolytic, hemicellulolytic, and amylolytic enzymes in the genome of *I. fonsfrigidae* strainSP3-1.** The bold locus tag indicates the presence of the CBM domain in its structure. The domains were identified using the conserved database domain (NCBI), dbCAN, and InterProScan.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Enzymes** | **EC number** | **Length** | **Locus tag** | **Domain organization** |
| **Cellulolytic enzyme** |  |
| β-Glucosidase | 3.2.1.21 | 1,3522,0601,4302,483 | AZO93138.1AZO94802.1AZO96211.1AZO96438.1 |  |
| Endoglucanase  | 3.2.1.4 | 8212,549 | AZO94579.1AZO94980.1 | **AZO94980.1​ ​and GH9-CBM9\_1-CBM9** |
| **Hemicellulolytic enzyme** |  |
| Endo-β-1,4-galactanase | 3.2.1.89 | 1,229 | AZO96369.1 |  |
| Xylan 1,4-β-xylosidase | 3.2.1.37 | 2,192 | AZO96255.1 |  |
| β-Galactosidase | 3.2.1.23 | 2,249 | AZO94803.1 |  |
| Xylan-α-1,2-glucuronosidase | 3.2.1.131 | 2,066 | AZO96253.1 |  |
| β-Xylosidase | 3.2.1.37 | 2,471 | AZO93139.1 |  |
| α-Xylosidase | 3.2.1.177 | 2,357 | AZO95768.1 |  |
| α-L-Arabinofuranosidase | 3.2.1.55 | 1,484 | AZO96448.1 |  |
| β-L-Arabinofuranosidase | 3.2.1.185 | 1,961 | AZO96465.1 |  |
| **Amylolytic enzyme** |  |
| α-Amylase | 3.2.1.1 | 1,511 | AZO93170.1 |  |
| Oligo-α-1,6-glucosidase | 3.2.1.10 | 1,637 | AZO93840.1 |  |
| Pullulanase | 3.2.1.41 | 1,946 | AZO96695.1 |  |