

Metagenomic mining and molecular characterization of a psychrophilic GH5-CBM5 cellulase from Krossfjorden sediments, Arctic

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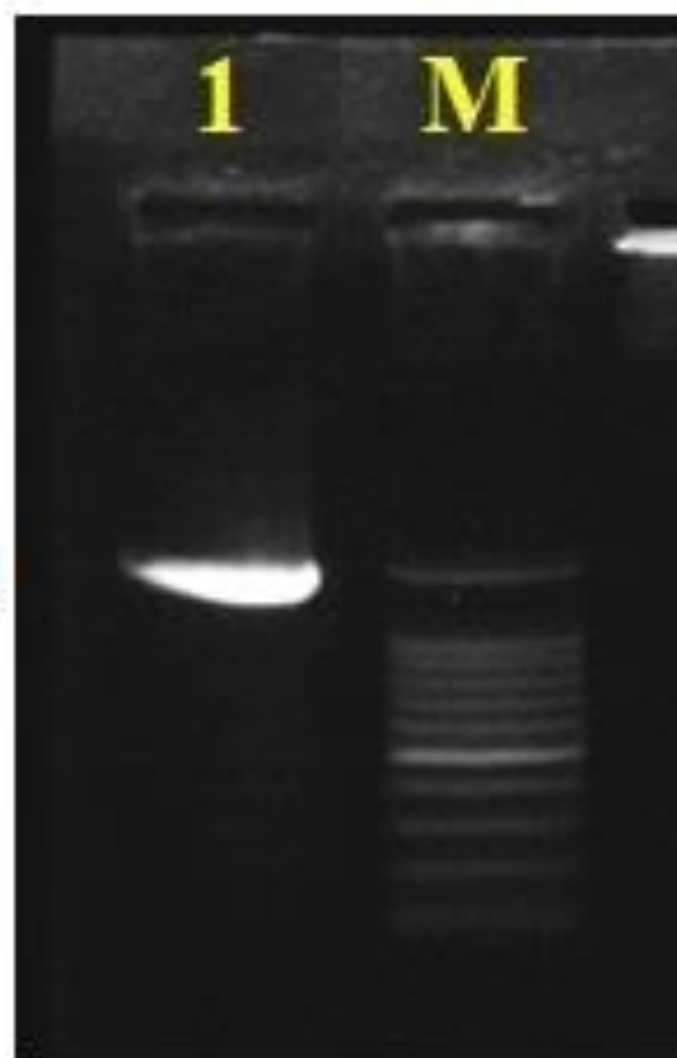
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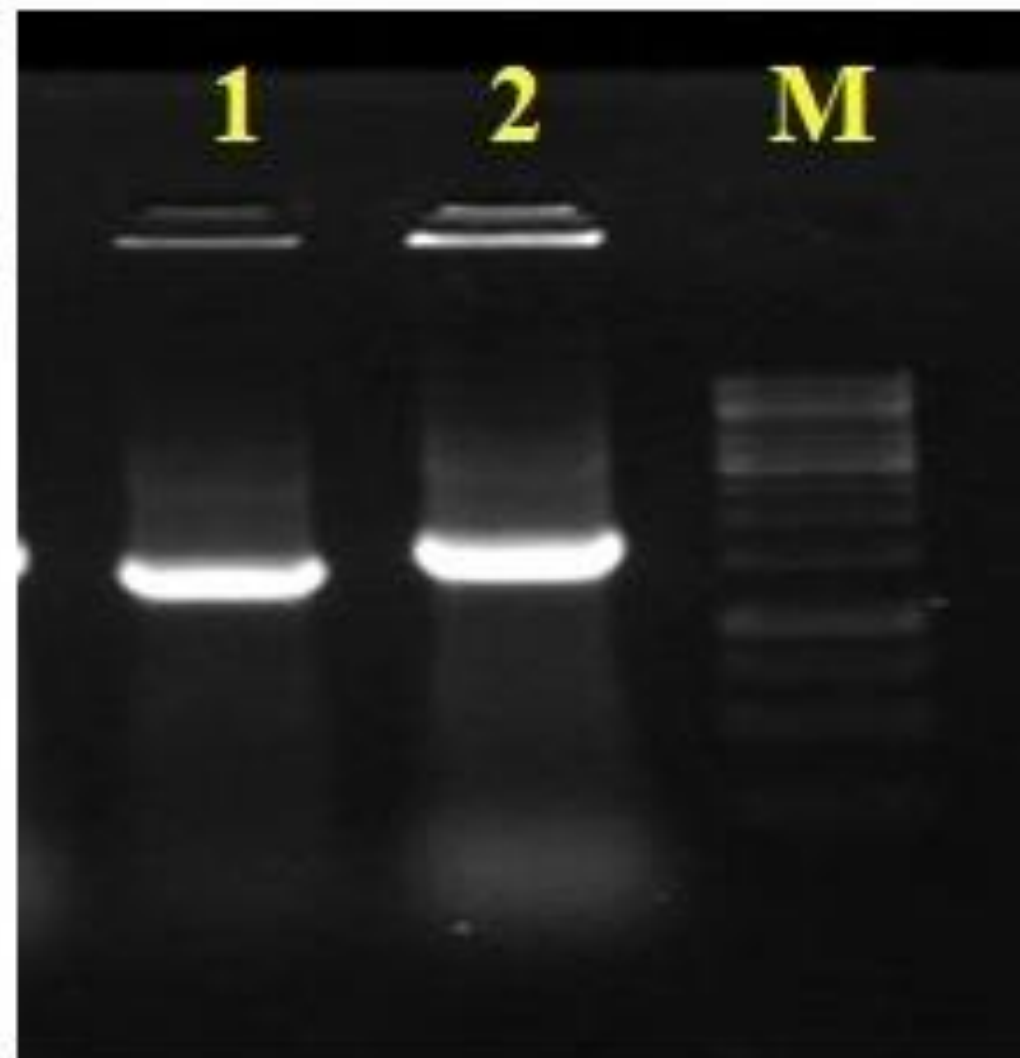
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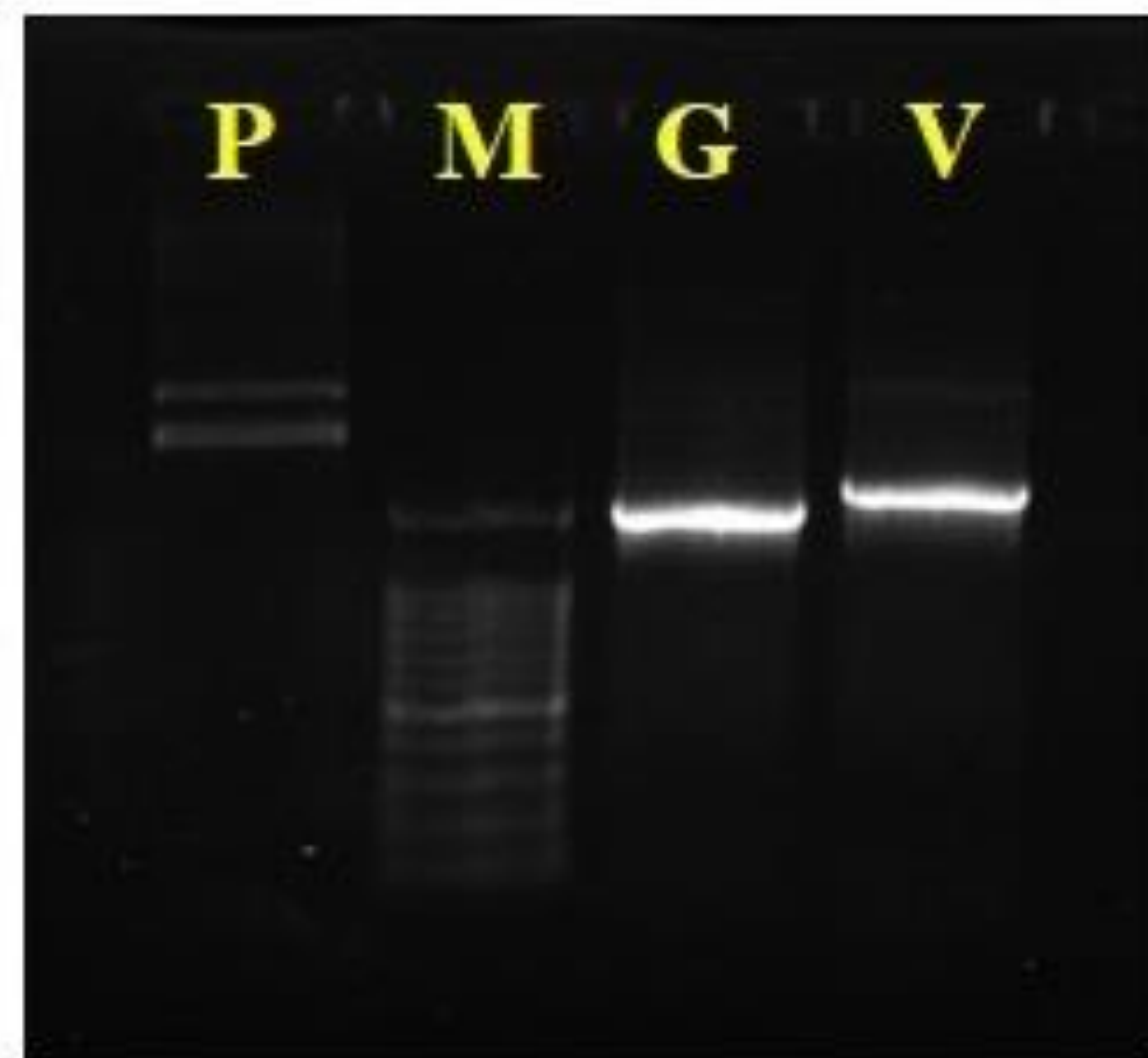
1482 bp



a



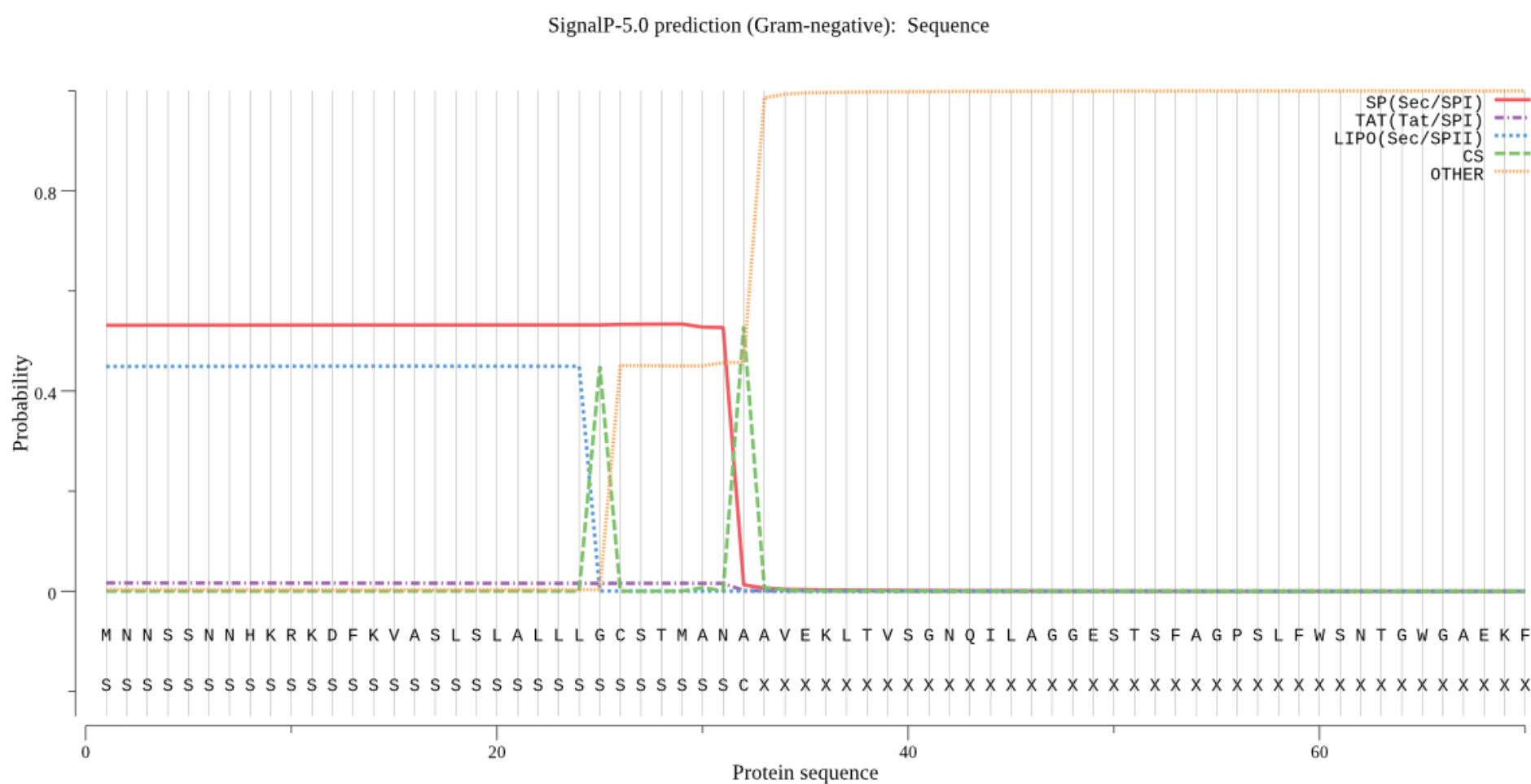
b



c

S1

a

**b**

<u>10</u>	<u>20</u>	<u>30</u>	<u>40</u>	<u>50</u>	<u>60</u>
MNNSSNNHKR	KDFKVASLSL	ALLGCASTMA	NAAVEKLTVS	GNQILAGGES	TSFAGPSLFW
<u>70</u>	<u>80</u>	<u>90</u>	<u>100</u>	<u>110</u>	<u>120</u>
SNTGWGAKEF	YTAETVAKAK	TEFNATLIRA	AIGHGTSTGG	SLNFDWEGNM	SRLDTVVNAA
<u>130</u>	<u>140</u>	<u>150</u>	<u>160</u>	<u>170</u>	<u>180</u>
IAEDMYVIID	FHSHEAHTDQ	ATAVRFFEDV	ATKYGQYDNV	IYEIYKEPLQ	ISWVNDIKPY
<u>190</u>	<u>200</u>	<u>210</u>	<u>220</u>	<u>230</u>	<u>240</u>
AETVIDKIRA	IDPDNLIVVG	TPTWSQDVDV	ASQNPIDRAN	IAYTLHIFYAG	THGQSYRNKA
<u>250</u>	<u>260</u>	<u>270</u>	<u>280</u>	<u>290</u>	<u>300</u>
QTALDNGIAL	FATEWGTVNA	DGNGGVNINE	TDAWMAFFKT	NNISHANWAL	NDKNEGASLF
<u>310</u>	<u>320</u>	<u>330</u>	<u>340</u>	<u>350</u>	<u>360</u>
TPGGSWNSLT	SSGTKVKEII	QGWWGGSSNV	DLDSDGDGVS	DSLDAQCNNT	AGTTVDSIGC
<u>370</u>	<u>380</u>	<u>390</u>	<u>400</u>	<u>410</u>	<u>420</u>
AVTDSADAGI	SDNIDQCPNT	PVGEAVNNVG	CVVEVVEPQS	DADNDGVNDD	IDQCPDTPAG
<u>430</u>	<u>440</u>	<u>450</u>	<u>460</u>	<u>470</u>	<u>480</u>
TSVDTNGCSV	VSSTDCNGIN	AYPNWVNKDY	SGGPFTHNNT	DDKMQYQGNA	YSANWYTNSL
<u>490</u>					
PGSDASWTLL	YTCN				

Signal Peptide Catalytic Module Linker Sequence Carbohydrate binding Module