

Manuscript title: Genomic, proteomic, and biochemical analyses of oleaginous *Mucor circinelloides*: Evaluating its capability in utilizing cellulolytic substrates for lipid production

Supplemental Table S2. List of Peptide sequences and proteins identified in the bands of A0-A9 and B0-B8 from concentrator- and ethanol-prepared protein samples, respectively.

Band A0				
Hits	Protein ID	Protein Mass	No. of Peptide	Peptide sequences
1	156167	64906.84	3	ADTFILIADSILK FASLYSINQNLYLGNAGR IDSFWNSNGQYVSQSVTGGVSK
Band A1				
Hits	Protein ID	Protein Mass	No. of Peptide	Peptide sequences
1	155115	37564.85	11	SKNIVGADQFTK TLILITFDENASTSK TLILITFDENASTSK TLILITFDENASTSK GTTDSTFYTHFSSLSTVEHNWDLGNLGR AFDHILQVWFENQDYSTIAK AFDHILQVWFENQDYSTIAK RNQVWSLLGNIPANLK AFDHILQVWFENQDYSTIAK NQVWSLLGNIPANLK NQVWSLLGNIPANLK
2	156269	42262.39	3	SWSIQYGDGSTASGILAK TPVDNLISQGLISSPVFGVWLK AGTTSVASSFSGILDTGTTTTLFTQSVASK
Band A2				
Hits	Protein ID	Protein Mass	No. of Peptide	Peptide sequences
1	156269	42262.39	12	NNYVVFNQK NNYVVFNQK SWSIQYGDGSTASGILAK DTVNLGGLVIK ASNGGGGEYLFGGSPNPNHYTGALTTPVVDK TPVDNLISQGLISSPVFGVWLK TPVDNLISQGLISSPVFGVWLK TPVDNLISQGLISSPVFGVWLK AGTTSVASSFSGILDTGTTTTLFTQSVASK AGTTSVASSFSGILDTGTTTTLFTQSVASK ESSSFASDPIDGLMGLGFDTITTVAGIK ESSSFASDPIDGLMGLGFDTITTVAGIK
2	155115	37564.85	7	VYQESIPSVGYTGYK TLILITFDENASTSK GTTDSTFYTHFSSLSTVEHNWDLGNLGR GTTDSTFYTHFSSLSTVEHNWDLGNLGR AFDHILQVWFENQDYSTIAK RNQVWSLLGNIPANLK NQVWSLLGNIPANLK
3	BAD95808	34332.99	2	YYSQCLPGSHSNNAGNASSTK TSTTAAASTSTSSSAGYK
Band A3				
Hits	Protein ID	Protein Mass	No. of Peptide	Peptide sequences
1	156806	34114.32	2	GLIYTQNNQVIK SNAPNPNNWGTPMAAFPVSGK
2	155646	18948.17	1	SAHYASTANYQQVTGR

Band A4				
Hits	Protein ID	Protein Mass	No. of Peptide	
1	115037	20656.54	19	TSGYAQVTGTIDR TSGYAQVTGTIDR TSGYAQVTGTIDR TSGYAQVTGTIDR TSGYAQVTGTIDR TSGYAQVTGTIDR TSGYAQVTGTIDR TSGYAQVTGTIDR TSGYAQVTGTIDR TSGYAQVTGTIDR TSGYAQVTGTIDR AAYQLDPNDGGGQYDNMDIK TSGYAQVTGTIDR AAYQLDPNDGGGQYDNMDIK TAHFVKTSGYAQVTGTIDR TSGYAQVTGTIDR TSGYAQVTGTIDR TSGYAQVTGTIDR TSGYAQVTGTIDR TSGYAQVTGTIDR
2	156806	34114.32	2	GLIYTQNNQVIK SNAPNPNWGTPTMAAFPFVSGK
3	155646	18948.17	1	SAHYASTANYQQVTGR
Band A5				
Hits	Protein ID	Protein Mass	No. of Peptide	
1	115037	20656.54	23	TSGYAQVTGTIDR TSGYAQVTGTIDR TSGYAQVTGTIDR TSGYAQVTGTIDR TSGYAQVTGTIDR TSGYAQVTGTIDR TSGYAQVTGTIDR TSGYAQVTGTIDR TSGYAQVTGTIDR TSGYAQVTGTIDR TAHFVKTSGYAQVTGTIDR TSGYAQVTGTIDR TSGYAQVTGTIDR AAYQLDPNDGGGQYDNMDIK TSGYAQVTGTIDR AAYQLDPNDGGGQYDNMDIK TSGYAQVTGTIDR TSGYAQVTGTIDR AAYQLDPNDGGGQYDNMDIK AAYQLDPNDGGGQYDNMDIK AAYQLDPNDGGGQYDNMDIK AAYQLDPNDGGGQYDNMDIK TSGYAQVTGTIDR TSGYAQVTGTIDR
2	155817	41544.01	2	AVVSDYFPAVQSQLTAYPGYK VGNPAFAYYVDSTGITFSR
3	155646	18948.17	1	SAHYASTANYQQVTGR

				APTWLQVTIFEDIDFGGASHVYK APTWLQVTIFEDIDFGGASHVYK APTWLQVTIFEDIDFGGASHVYK APTWLQVTIFEDIDFGGASHVYK APTWLQVTIFEDIDFGGASHVYK APTWLQVTIFEDIDFGGASHVYK APTWLQVTIFEDIDFGGASHVYK APTWLQVTIFEDIDFGGASHVYK APTWLQVTIFEDIDFGGASHVYK APTWLQVTIFEDIDFGGASHVYK APTWLQVTIFEDIDFGGASHVYK APTWLQVTIFEDIDFGGASHVYK APTWLQVTIFEDIDFGGASHVYK APTWLQVTIFEDIDFGGASHVYK APTWLQVTIFEDIDFGGASHVYK APTWLQVTIFEDIDFGGASHVYK APTWLQVTIFEDIDFGGASHVYK APTWLQVTIFEDIDFGGASHVYK APTWLQVTIFEDIDFGGASHVYK APTWLQVTIFEDIDFGGASHVYK
2	157923	18919.85	4	SAGYT GALAVHSSEQTLETK SAGYT GALAVHSSEQTLETK SAGYT GALAVHSSEQTLETK KPEFDA VLLATSLVK
3	155646	18948.17	4	SAHYASTANYQQVTGR SAHYASTANYQQVTGR SAHYASTANYQQVTGR SAHYASTANYQQVTGR
4	115037	20656.54	3	TSGYA QVTGTIDR TSGYA QVTGTIDR AAYQLDPNDGGGQYDNMDIK
5	92193	19499.31	3	TPATHLDAANNLVNQINTSFATAK KPQFDAILLATTLVK KPQFDAILLATTLVK
6	157172	18447.65	3	AIDLTPAAFQK AIDLTPAAFQK LATLNDGVVDISWK
7	156103	14879.71	3	LGYLENNDPYNEHLK WETTYNDGTGQQVPIPDGYK DFALNAGSQITILPADLETK
8	157488	30733.9	1	TITGLDLYSDASGNPK
9	184762	17351.86	1	VSDSHVVNDAQVLVTNTK

Band A8				
Hits	Protein ID	Protein Mass	No. of Peptide	
1	156103	14879.71	28	AGQSYVVK AGQSYVVK FTIQAAR LGYLENNDPYNEHLK LGYLENNDPYNEHLK LGYLENNDPYNEHLK LGYLENNDPYNEHLK LGYLENNDPYNEHLK LGYLENNDPYNEHLK LGYLENNDPYNEHLK WETTYNDGTGQQVPIPDGYK WETTYNDGTGQQVPIPDGYK WETTYNDGTGQQVPIPDGYKGTIK WETTYNDGTGQQVPIPDGYKGTIK WETTYNDGTGQQVPIPDGYK WETTYNDGTGQQVPIPDGYKGTIK WETTYNDGTGQQVPIPDGYK AGQSYVVKWETTYNDGTGQQVPIPDGYKGTIK AGQSYVVKWETTYNDGTGQQVPIPDGYK TSYIIVLMGNSGNASPK TSYIIVLMGNSGNASPK DFALNAGSQTITLPADLET DFALNAGSQTITLPADLET DFALNAGSQTITLPADLET DFALNAGSQTITLPADLET DFALNAGSQTITLPADLET FGDLAKDFALNAGSQTITLPADLET FGDLAKDFALNAGSQTITLPADLET
2	191377	11741.29	9	HQNGVIAGSVAPGGSAGSR HQNGVIAGSVAPGGSAGSR HQNGVIAGSVAPGGSAGSR APTWLQVTIFEDIDFGGASHVYKGPQK APTWLQVTIFEDIDFGGASHVYK APTWLQVTIFEDIDFGGASHVYK APTWLQVTIFEDIDFGGASHVYK APTWLQVTIFEDIDFGGASHVYK APTWLQVTIFEDIDFGGASHVYK
3	156010	30340.93	3	KITGLDLYSVDSAGK YVQNVWSGSYALNTK ITGLDLYSVDSAGK
4	156218	18949.67	3	SHLSSFDDKTSR SKEGSYNFLTK VLNALNTIK
5	157285	16118.75	3	TPYFHVEYNK SWVSVDLYEYK ASGISTPWFNVDLGK
6	157923	18919.85	2	SAGYTGALAVHSSEQTLET KPEFDAVLLATSLVK
7	155646	18948.17	1	SAHYASTANYQQVTGR
8	157172	18447.65	1	LATLNDGVVDISWK
Band A9				
Hits	Protein ID	Protein Mass	No. of Peptide	
1	156103	14879.71	3	LGYLENNDPYNEHLK WETTYNDGTGQQVPIPDGYK DFALNAGSQTITLPADLET
2	184762	17351.86	1	VSDSHVVNDAQLVLTNTK

Band B0				
Hits	Protein ID	Protein Mass	No. of Peptide	Peptide sequences
1	38405	78552.88	2	FASNVSSGVSGINAASWDK GWESGGEDPYLQGVTAETIK
Band B1				
Hits	Protein ID	Protein Mass	No. of Peptide	Peptide sequences
1	156167	64906.84	33	ADTFILIADSILK ADTFILIADSILK ADTFILIADSILK ADTFILIADSILK AIKEWFNNGGVTVTSISLNFFK AIKEWFNNGGVTVTSISLNFFK ATTYTNTAASIK ATTYTNTAASIK DLTWSHASLISASYAK DLTWSHASLISASYAK EWFNNGGVTVTSISLNFFK FASLYSINQNLNGYLGNAIGR FASLYSINQNLNGYLGNAIGR FASLYSINQNLNGYLGNAIGR FASLYSINQNLNGYLGNAIGR FASLYSINQNLNGYLGNAIGR FDSSAAVGTK IDSFWNSNGQYVSQSQTGGVSK IDSFWNSNGQYVSQSQTGGVSK IDSFWNSNGQYVSQSQTGGVSK IDSFWNSNGQYVSQSQTGGVSK QTGDATYVTGTLAPAIYK QTGDATYVTGTLAPAIYK SFTYDGSTLAGQIYK SFTYDGSTLAGQIYK SFTYDGSTLAGQIYK SFTYDGSTLAGQIYK TKIDSFWNSNGQYVSQSQTGGVSK TKIDSFWNSNGQYVSQSQTGGVSK TKIDSFWNSNGQYVSQSQTGGVSK YTVGTSSFNSLVQNVAAADAFFSTIK YTVGTSSFNSLVQNVAAADAFFSTIK YTVGTSSFNSLVQNVAAADAFFSTIK
Band B2				
Hits	Protein ID	Protein Mass	No. of Peptide	Peptide Sequence
1	155115	37564.85	7	VYQESIPSVGYTGK TLILITFDENASTSKR TLILITFDENASTSK GTTDSTFYTHFSSLSTVEHNWDLGNLGR AFDHILQVWFENQDYSTIAK RNQVWSLLLGNIPANLK NQVWSLLLGNIPANLK
2	84529	31936.78	1	VAQNVASAVQDIITK
Band B3				
Hits	Protein ID	Protein Mass	No. of Peptide	
1	84529	31936.78	8	DVSIPVENHGYGGATTNNADAYSK VVVFADSYTDNGNDYK FNGWTVPLK VHAAWGAWALENLKK VAQNVASAVQDIITK VHAAWGAWALENLK EFAFFSVAPFDK EFAFFSVAPFDKWPVIK

2	155115	37564.85	7	VYQESIPSVGYTGK TLILITFDENASTSK TLILITFDENASTSK AFDHILQVWFENQDYSTIAK RNQVWSLLLGNI PANLK NQVWSLLLGNI PANLK NQVWSLLLGNI PANLK
3	115037	20656.54	4	TSGYAQVTGTIDR TSGYAQVTGTIDR TSGYAQVTGTIDR AAYQLDPNDGGGQYDNMDIK
4	155048	46677.27	1	TNQEVLAEFYTTQK
5	181379	41360.8	1	SLTISNVVINDITGSVSEK

Band B4

Hits	Protein ID	Protein Mass	No. of Peptide	
1	84529	31936.78	19	DVSIPVENHGYGGATTNNADAYSK DVSIPVENHGYGGATTNNADAYSK NSEFPPSPYYAGR NSEFPPSPYYAGR VVVFADSYTDNGNDYK VVVFADSYTDNGNDYK NSEFPPSPYYAGR KMIEDYNSYVEGEIK MIEDYNSYVEGEIK NSEFPPSPYYAGR HFFWDSYHPEK NSEFPPSPYYAGR VHAAGAWALENLK VAQNVASAVQDIITK KVHAAGAWALENLK FSNGPTWLEYVAK VHAAGAWALENLK EFAFFSVAPFDK EFAFFSVAPFDKWPVIK
2	115037	20656.54	8	TSGYAQVTGTIDR TSGYAQVTGTIDR TSGYAQVTGTIDR TSGYAQVTGTIDR TSGYAQVTGTIDR TSGYAQVTGTIDR TSGYAQVTGTIDR AAYQLDPNDGGGQYDNMDIK
3	115625	28451.95	2	DKFDLFGALNLNGVSPGNR YQDVIEYFQQVLDLR

Band B5

Hits	Protein ID	Protein Mass	No. of Peptide	
1	157263	16950.72	7	NGNFVNLHSGK KESSDNENQLWEYR GAEDENGAEVILYEK ESSDNENQLWEYR SGTVAANQQWELVR SGTVAANQQWELVR WLIDHEGYIHSSNPDLVLDIK
2	115037	20656.54	2	TSGYAQVTGTIDR AAYQLDPNDGGGQYDNMDIK
3	191377	11741.29	2	HQNGVIAGSVAPGGSAGSR APTWLQVTIFEDIDFGGASHVYK
4	157488	30733.9	1	TITGLDLYSVDASGNPK

Band B6				
Hits	Protein ID	Protein Mass	No. of Peptide	
1	115037	20656.54	3	TSGYAQVTGTIDR TSGYAQVTGTIDR AAYQLDPNDGGGQYDNMDIK
2	156103	14879.71	3	LGYLENNDPYNEHLK WETTYNDGTGQQVPIPDGYK DFALNAGSQTITLPADLETK
3	191377	11741.29	3	HQNGVIAGSVAPGGSAGSR APTWLQVTIFEDIDFGGASHVYK APTWLQVTIFEDIDFGGASHVYK
4	155646	18948.17	1	SAHYASTANYQQVTGR
Band B7				
Hits	Protein ID	Protein Mass	No. of Peptide	
1	156103	14879.71	8	LGYLENNDPYNEHLK WETTYNDGTGQQVPIPDGYK WETTYNDGTGQQVPIPDGYK WETTYNDGTGQQVPIPDGYKGTIK TSYIIVLMGNSGNASPK DFALNAGSQTITLPADLETK DFALNAGSQTITLPADLETK FGDLAKDFALNAGSQTITLPADLETK
2	156010	30340.93	2	YVQNVWSGSYALNTK ITGLDLYSVDSAGK
3	155263	2114.11	1	ISPDIVQAGSELTIEASGTVK
Band B8				
Hits	Protein ID	Protein Mass	No. of Peptide	
1	156103	14879.71	3	LGYLENNDPYNEHLK WETTYNDGTGQQVPIPDGYK WETTYNDGTGQQVPIPDGYK