

**TABLE S2: Surface proteins identified after *de novo* analysis of MS-MS data in adhesive *L. lactis* TIL448 and non-adhesive TIL1230 harvested in exponential phase or stationary phase.**

Surface-exposed proteins were shaved from whole bacteria with trypsin. The unmatched spectra after mass-matching analysis were translated into amino-acid sequences by PeptNovo software and the sequences were searched for homology with FASTS36 software against a Lactobacillales Uniref 90 database using the *de novo* pipeline developed on the PAPPSO platform (<http://pappso.inra.fr/bioinfo/denovopipeline/>).

Experiment	Protein description	Gene name	E-value	Peptides
<b>TIL448_Exponential</b>				
FASTS				
Pass Number				
1	UniRef90_H5T1K0 Uncharacterized protein	yufC	3.40E-26	14
2	UniRef90_A9QSD0 Peptidoglycan hydrolase with CHAP domain	usp45	5.80E-21	16
<b>TIL448_Exponential</b>				
FASTS				
Pass Number				
1	UniRef90_A9QSD0 Peptidoglycan hydrolase with CHAP domain	usp45	1.40E-18	17
2	UniRef90_F2HQ12 Oligopeptide ABC transporter substrate-binding	optA	2.60E-06	11
<b>TIL1230_Exponential</b>				
FASTS				
Pass Number				
1	UniRef90_A9QSD0 Peptidoglycan hydrolase with CHAP domain	usp45	0	19
2	UniRef90_H5T1K0 Uncharacterized protein	yufC	8.80E-22	12
3	UniRef90_G6FA33 Serine-type D-Ala-D-Ala carboxypeptidase	dacA	4.10E-11	9
4	UniRef90_F2HQ12 Oligopeptide ABC transporter substrate-binding	optA	2.50E-07	4
5	UniRef90_F9VBD1 Putative uncharacterized protein	usp45	6.10E-08	16
6	UniRef90_D2BN93 Ferrichrome ABC transporter, substrate-binding	fhuD	2.30E-07	14
<b>TIL1230_Exponential</b>				
FASTS				
Pass Number				
1	UniRef90_A9QSD0 Peptidoglycan hydrolase with CHAP domain	usp45	0	22
2	UniRef90_F2HQ12 Oligopeptide ABC transporter substrate-binding	optA	7.70E-25	10
3	UniRef90_Q9ZB16 Putative uncharacterized protein	yufC	1.40E-17	11
4	UniRef90_G6FA33 Serine-type D-Ala-D-Ala carboxypeptidase	dacA	6.30E-14	13
5	UniRef90_A9QSD0 Peptidoglycan hydrolase with CHAP domain	usp45	7.60E-09	15
6	UniRef90_D2BN93 Ferrichrome ABC transporter, substrate-binding	fhuD	4.80E-05	11
7	UniRef90_H5T166 Uncharacterized protein	ysjH	1.40E-11	3

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**TIL448\_Stationary**

FASTS

Pass Number

1	UniRef90_A9QSD0 Peptidoglycan hydrolase with CHAP domain	usp45	0	15
2	UniRef90_F2HQ10 Oligopeptide ABC transporter substrate-binding	optS	3.90E-21	12
3	UniRef90_A9QSD0 Peptidoglycan hydrolase with CHAP domain	usp45	3.10E-19	7
4	UniRef90_Q8RLX7 Collagen-like protein 2	scl2	4.30E-08	8
5	UniRef90_G5JXL6 CHAP domain protein	usp45	2.90E-07	17
6	UniRef90_G6FDX2 Aminoacyltransferase	pbp2B	3.20E-12	5
7	UniRef90_C7XVU6 N-acetylmuramidase	acm-like	0.00031	3
8	UniRef90_H5SX69 Penicillin-binding protein 1A	ponA	0.00049	5

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**TIL448\_Stationary**

FASTS

Pass Number

1	UniRef90_A9QSD0 Peptidoglycan hydrolase with CHAP domain	usp45	0	15
2	UniRef90_P22865 Secreted 45 kDa protein	usp45	2.40E-17	14
3	UniRef90_F2HQ12 Oligopeptide ABC transporter substrate-binding	optA	4.30E-16	17
4	UniRef90_G6FDX2 Aminoacyltransferase	pbp2B	1.50E-14	3
5	UniRef90_G6FEX2 Hydrolase acting on carbon-nitrogen bonds	xynD	4.50E-11	5
6	UniRef90_F2HQ10 Oligopeptide ABC transporter substrate-binding	optS	4.20E-05	5
7	UniRef90_H5T202 Uncharacterized protein	ywal	0.00057	12

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**TIL1230\_Stationary**

FASTS

Pass Number

1	UniRef90_A9QSD0 Peptidoglycan hydrolase with CHAP domain	usp45	0	14
2	UniRef90_G6FEQ8 Succinate dehydrogenase	frdC	9.70E-18	4
3	UniRef90_F2HJH0 Thiamine biosynthesis lipoprotein	apbE2	1.10E-14	12
4	UniRef90_D9N521 Glucan-binding protein B	gbpB	4.50E-10	8
5	UniRef90_D2BN93 Ferrichrome ABC transporter, substrate-binding	fhuD	6.60E-08	8
6	UniRef90_Q9F684 Collagen-like surface protein (Fragment)	sclA	3.80E-05	6

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**TIL1230\_Stationary**

FASTS

Pass Number

1	UniRef90_A9QSD0 Peptidoglycan hydrolase with CHAP domain	usp45	0	14
2	UniRef90_G6FEQ8 Succinate dehydrogenase	frdC	8.10E-29	12
3	UniRef90_F2HJH0 Thiamine biosynthesis lipoprotein	apbE2	1.70E-18	7
4	UniRef90_A9QSD0 Peptidoglycan hydrolase with CHAP domain	usp45	3.20E-13	11
5	UniRef90_G6FEQ8 Succinate dehydrogenase	frdC	6.80E-10	6
6	UniRef90_C2LQ29 LPXTG-motif cell wall anchor domain protein		2.30E-05	15

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