**Table S4 –** Predicted surface-exposed proteins identified in *B. cenocepacia* J2315 by using the “surface shaving” strategy followed by LC-MS/MS (Threshold score: ≥5 peptides) and their predicted B cell epitopes.

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| --- | --- | --- | --- | --- |
| **ORF** | **Description** | **Peptides identified1** | **Predicted B cell epitopes2** | **B cell epitopes average (predicted peptides)2** |
| BCAL0304 | VacJ-like lipoprotein | 46FNDTVDTYALKPVAK60  96IADGVGDIMR105  195ANLLGAGDVLDAAALDK211  217NAYLQR222  232GEAAVTSNNDALPK245 | 27VQTPTKGDPLE37  125KLPKHTADF133  175YVKPDG180  194R**ANLLGAGDV**203 | 0.469 (4) |
| BCAL0342 | Type VI secretion system protein TssC | 100GLDYLVK106  132GASEFDQSALFK143  237YVGLTLPR244  304GVEGGGLVEDLPTHTFK320  486LVADLPKPANS496 | 5TAAAQASGAEYAAGTSL21  27EKSKVAKSDSEHAR40  54DGTVIVSDN62  90EFQRLES96  109NTGQT113  127VRDFK**GASEFDQSAL**141  143**K**KVYEEEFGTFGG155  167ISRQPED173  250PFNPKDGQTAENFNFVEDVDGTDH273  301AIR**GVEGGGLVED**313  320**K**TDDGEVALKCP331  337TDRREKE343  371KPKKYSTDSANA382  411IGSFASAQNVET422  431YVLLDDNASQEQKAQFPLR449 | 0.472 (15) |
| BCAL1288 | Family M23 peptidase | 56WNQMTNPDAIEVGQVLR72  93ARPAPSAPVESAVKPATSIALIWPAAGNVV122  132GIDIANSPGTPVVAAAPGVVVYAGNGLR159  160GYGNLIILK168  187EGQSVTQGQSIAEMGNSDSDR207  208VALHFELR215 | 17LLVACGSAPVGP28  121**VV**RTFDGSK129  182ALLVK**EGQSVTQ**193  202**NSDSDR**207  219RSIDP223 | 0.513 (5) |
| BCAL1881 | Putative lipoprotein | 59YLFSPVAVGDAVYAAGENGSVEK81  95VGSDLSAGVGSDGNLTAVGALK116  117GGVFVLGPDGK127  153TIDGQVIAFNAQTGEQK169  350TDGSAITAAPVLAGNTLVVQTK371 | 25SSKDARRVPTPLTEFKPVMDV45  51ASVGKGG57  91WRSK**VGS**97  127**K**QLWKTSVQ135  167**EQK**WNYRNRAVPLNLRV183  217QTPVSFPKGVTEVERIND234  263GRPLWEKPFSSRSGLAQ279  302NQLWRNDKLKSR313 | 0.444 (8) |
| BCAL1893 | Family M23 peptidase | 51SGSLGTTATAQPAVPLGPPPPGFYR75  95DIASWNNLANPNQIEVDQLLR115  188GPVLNGFDDAK198  199NKGVNIGGTAGEAVK213  220VVYSGNGLR228  238HDATYLTAYAHNR250  266IAEMGNSDADR276  286QGKPVDPLK294 | 5SMLRAMQNNRSREPLTLA22  191**LNGFDDAK**198  251ALMVKEGDAVTK262  287**GKPVDPLK**Y295 | 0.523 (4) |
| BCAL1985 | Putative exported isomerase | 38ADAMVAQLVQQGQTDGPQLQQAVR61  68EILMQEAIR76  87AQVAVAQQTVVLR99  186AYVPEFAAAAQK197  235AQIAQQLVQQK245  246LQAFEEGLR254 | 45**LVQQGQTDGPQLQQAVR**QELVNR**E**68  78GIPNRPD84  198LQKGQMTDT206  221DIRDIAPPPF230  240**QLVQQKLQAFEEG**252 | 0.494 (5) |
| BCAL2022 | PspA/IM30 family protein | 13GLLNDAADSVQDPSR27  35ELDDSIGR42  43AENSLIEIEAQVATQR58  78ALQGGDEALAR88  89EALAAQSNAEAER101  150DVAASALGGIGGK162 | 20**DSVQDPSRD**28  156**LGGIGGK**NLSEDFQKLEDK174  215AALKKQLD222 | 0.503 (3) |
| BCAL2083 | Outer membrane protein assembly factor YaeT | 44VEAGSVFAYLPIK56  111EFDKDNLTK119  152GFYAAEVK159  226LTGDLEAVR234  319LGEYGYAFATVNAQPDIDQANHK341  342VNLNLVVDPSR352 | 41LQR**VEAGSV**49  54**PIK**QGDTFTDDKAS67  111**EFDKDNL**117  124VGLADGRYYDKALVDKAEQ142  192NKAFSTSTLRDE203  360NVVGNTRTRDEV371  373RREMRQLESSWFDSNRL389  410VPVDGTN416  426DEKPTGA432  454DNVFGSGT461  484YFTVDGIKR492  498YRTYQPLYYSTSSSFR513  574WSRDARDSALIPSRG588  595IEYGVPVGKIQ605  611LQAQYYYSFS620  634GNGIGNPYP642  657GYEPSSLGPRDTKTNDPI674  712GNAPGGTSTGANG724  751QKHEGDQYQ759 | 0.488 (19) |
| BCAL2645 | OmpA family protein | 79LAPSAAQTGTQVTEQPDGSLK99  161AQSVVNALVQR171  178LSAQGMGASNPIADNATEAGR198  203RVEIYLR209  204VEIYLR209 | 88**TQVTEQ**93  109ATNQYAITPA118  145DSTGSAQLNQTL156  183**MGASNPIADNATEAGR**AQN201 | 0.502 (4) |
| BCAL2958 | OmpA family protein | 93ITYQADALFDFDK105  93ITYQADALFDFDKATLKPLGK113  114QKLDELASK122  116LDELASK122  123IEGMNTEVVVATGYTDR139  203RVEVEVVGTQQVQK216  204VEVEVVGTQQVQK216 | 101**FDFDKATLKPLGKQ**114  139**R**IGSDKYNDRL149  211**TQQVQK**TTV219 | 0.512 (3) |
| BCAL3204 | Putative OmpA family lipoprotein | 31ANNAGAVSTQPSADNVAQVNVDPLNDPNSPLAK63  65SIYFDFDSYSVK76  97HVLIQGNTDER107  108GTSEYNLALGQK119  127AMALLGVNDSQMEAVSLGK145  146EKPQATGHDEASWAQNR162 | 67**YFDFDSYSVK**DEYQP81  105**DERGTSEYNLAL**116  143**LGKEKPQATGHDEASWAQN**161 | 0.507 (3) |
| BCAL3311 | BcnA | 41QMNVPTEGAFKK52  41QMNVPTEGAFK51  64AAQGSAQMTIDVASFDLGDK83  84MYNDQVAGK92  93DWFDAK98  99TYPQATFVSSAIAPAGGNK117  128GKAETVTVPVTVAQNGATQTFDGVLPIK155  128GKAETVTVPVTVAQNGATQTFDGVLPIKR156  130AETVTVPVTVAQNGATQTFDGVLPIK155  157SAFNVGTGEWK167  168DTSIVADEVQIK179  180FHLVATK186 | 21SGAAHADV28  78**FDLGDKMYNDQVAGKDWFDAK**98  158**AFNVGTGEWKDTSIVA**173 | 0.455 (3) |
| BCAM1931 | Putative porin | 44SLWSMGSGIDQSR56  61GSEDLGGGLK70  86LGNNGGMFNR95  96QAFVGLSSQYGTVTLGK112  144LSTNGDVALNNSIK157  185AYSGGLSYQFQGLK198  199LGAAYSQANLGDGTNANGATNIAAQGR225  263ADNYEVNAK271  272YNLTPALGLGAAYTYTNAK290  313TDVYAQAVYQR323  327NAGGASIYNGDLSTAPSSSINQTAATVGLR356 | 36YQSNVASK**SLWSMGSGID**53  63**EDLGGG**68  79FNIGNGR**LGNNGGMF**93  173SFSNNQNFGNNR**A**185  192**YQFQG**196  205**QANLGDGTNANGATNIAAQGR**V226  248QSRIDNRAAGVPSLR**ADN**265  272**YNLTPA**277  287**TNAK**VDGSSAHW298  323**R**ASK**NAGGASIYNGDLSTAPSSSI**346 | 0.503 (10) |
| BCAM2549 | Multidrug efflux system outer membrane protein OpcM | 162AQGTVSYEADLFGR175  185ADQAQSEALFR195  240FNEGDISELDVSR252  255NELASAQADAVGVAR269  396AQYDEQVANYR406 | 4DRKMDNMHNTNGLMR18  175**R**VGRNVEASR**ADQAQSEAL**193  264**AVGVAR**RRAA273  286PADFAFKETPIVPVAVKIPPGL307  316PDVSA320  332IGLAKSAYFPK342  346TGSFGYEASTLGNLFLWSSRTFLLG370  421ADLRLLDDQIRAQEAAVNASRRAAT445  448RTQYQEGEVAYL459  466RSVLQSQLQANQ477  495GGWGNAPAPTAVGDAASGKAD515 | 0.521 (11) |
| BCAM2761 | Giant cable pilus | 80LATAPALKNQTSPGAAEIPLSVK102  88NQTSPGAAEIPLSVK102  103LGETELTTTAATLK116  117TAELFPGELAQGSNVLALSIGQK139  140KVEAVTASGSYQGLVSVIVTQSAASGS166 | 67IFTNDKAKD75  85ALK**NQTSPGAA**95 | 0.501 (2) |

1 Peptides identified using surface-shaving with trypsin and LC-MS/MS analysis.

2<http://tools.iedb.org/bcell/>. Threshold used of 0.5. Peptides shorter than 5 or larger than 25 amino acids were not considered. At bold are the predicted B cell epitopes found by the Surface-shaving approach.