

Suppl. Table 1. Outputs of computational programs for identification of candidate OMPs.

Filtered by non-Outer Membrane protein Orthologs

● Filtered by lipoprotein filter

◆ Filtered by transmembrane α -helix Filter

CELLO

TP0011	Tpr protein B (TprB)
TP0117	Tpr protein C (TprC)
TP0131	Tpr protein D (TprD)
TP0155	Conserved hypothetical protein
TP0257#	Glycerophosphoryldiester phosphodiesterase (glpQ)
TP0292	Tpn50
TP0313	Tpr protein E (TprE)
TP0325	Conserved hypothetical protein
TP0326	BamA ortholog
TP0421	Conserved hypothetical protein
TP0424#	V-type ATPase, subunit E, putative
TP0453●	Hypothetical protein
TP0483	Hypothetical protein
TP0498#	Rod shape-determining protein (mreC)
TP0515	Conserved hypothetical protein
TP0548	Hypothetical protein
TP0571◆	Tp70
TP0574#	Carboxypeptidase,
TP0598	Hypothetical protein
TP0620	Tpr protein I (TprI)
TP0621	Tpr protein J (TprJ)
TP0659#	Flagellar hook-associated protein 3 (flgL)
TP0698	Hypothetical protein
TP0724#	Flagellar motor rotation protein (motB)
TP0729	Hypothetical protein

TP0747	Hypothetical protein
TP0773#	Periplasmic serine protease DO (htrA-1)
TP0841#	Periplasmic serine protease DO (htrA-2)
TP0855	Hypothetical protein
TP0856	Hypothetical protein
TP0858	Hypothetical protein
TP0864◆	Conserved hypothetical protein
TP0865	Hypothetical protein
TP0872#	Flagellar filament cap protein (fliD)
TP0897	Tpr protein K (TprK)
TP0923	Hypothetical protein
TP0969	Hypothetical protein
TP0990◆	Conserved hypothetical protein
TP0996	Conserved hypothetical protein
TP0997#	Protease IV (sppA)
TP1020#	Glu-tRNA amidotransferase, subunit A (gatA)
TP1031	Tpr protein L (TprL)

PSORT

TP0049	Conserved hypothetical protein
TP0155	Conserved hypothetical protein
TP0257#	Glycerophosphoryldiester phosphodiesterase (glpQ)
TP0292	Tpn50
TP0326	BamA ortholog
TP0421	Conserved hypothetical protein
TP0444◆	Conserved hypothetical protein
TP0571◆	Tp70
TP0621	Tpr protein J (TprJ)
TP0706	Conserved hypothetical protein
TP0729	Hypothetical protein
TP0769	TmpB
TP0855	Hypothetical protein
TP0864◆	Conserved hypothetical protein

TP0865 Hypothetical protein
TP0969 Hypothetical protein
TP0990♦ Conserved hypothetical protein

TMBETADISC (PSSM Profiles)

TP0011 Tpr protein B (TprB)
TP0040# Methyl-accepting chemotaxis protein (mcp1)
TP0042♦ Hypothetical protein
TP0062# Single-strand DNA binding protein (ssb)
TP0095 Hypothetical protein
TP0114# Lambda CII stability-governing protein (hfIC)
TP0117 Tpr protein D (TprD)
TP0118 Hypothetical protein
TP0131 Tpr protein D (TprD)
TP0133● Hypothetical protein
TP0134 Hypothetical protein
TP0155 Conserved hypothetical protein
TP0171● Lipoprotein
TP0247# N-acetylmuramoyl-L-alanine amidase (amiA)
TP0261# Catabolite gene activator, putative
TP0263# Carboxyl-terminal protease (ctp)
TP0277# Carboxyl-terminal protease (ctp)
TP0282 Hypothetical protein
TP0313 Tpr protein E (TprE)
TP0317 Tpr protein G (TprG)
TP0319● Lipoprotein
TP0324 Hypothetical protein
TP0326 BamA ortholog
TP0363# Chemotaxis histidine kinase (cheA)
TP0399# Chemotaxis histidine kinase (cheA)
TP0421 Conserved hypothetical protein
TP0463 Hypothetical protein
TP0481♦ Hypothetical protein

TP0482	Hypothetical protein
TP0486●	Antigen p83/100
TP0487	Hypothetical protein
TP0488#	Methyl-accepting chemotaxis protein (mcp2-1)
TP0496	Conserved hypothetical protein
TP0498#	Rod shape-determining protein (mreC)
TP0544	Hypothetical protein
TP0546#	Periplasmic serine protease, putative
TP0548	Hypothetical protein
TP0571♦	Tp70
TP0574#	Carboxypeptidase,
TP0620	Tpr protein I (TprI)
TP0621	Tpr protein J (TprJ)
TP0623#	Membrane-bound lytic murein transglycosylase D
TP0639#	Methyl-accepting chemotaxis protein (mcp2-2)
TP0640#	Methyl-accepting chemotaxis protein (mcp2-3)
TP0659#	Flagellar hook-associated protein 3 (flgL)
TP0660#	Flagellar hook-associated protein 3 (flgL)
TP0674	Hypothetical protein
TP0684#	Flagellar hook-associated protein
TP0705#	Methylgalactoside ABC transporter, periplasmic galactose-binding protein (mgIB-2)
TP0724#	Penicillin-binding protein (pbp-2)
TP0727#	Flagellar motor rotation protein (motB)
TP0728#	Flagellar hook protein (flgE)
TP0729	Hypothetical protein
TP0737#	Sugar ABC transporter, periplasmic binding protein
TP0739	Conserved hypothetical protein
TP0760#	Penicillin-binding protein (pbp-3)
TP0768●	TmpA
TP0773#	Periplasmic serine protease DO (htrA-1)
TP0782	Hypothetical protein

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TP0792#	Flagellar filament 33 kDa core protein (flaB2)
TP0820	Hypothetical protein
TP0829	Conserved hypothetical protein
TP0841#	Periplasmic serine protease DO (htrA-2)
TP0855	Hypothetical protein
TP0857	Hypothetical protein
TP0858	Hypothetical protein
TP0860	Hypothetical protein
TP0862#	Peptidyl-prolyl cis-trans isomerase, FKBP-type,
TP0865	Hypothetical protein
TP0872#	Flagellar filament cap protein (fliD)
TP0897	Tpr protein K (TprK)
TP0928	Hypothetical protein
TP0959	Hypothetical protein
TP0960#	Flagellar basal-body rod protein (flgG-1)
TP0961#	Flagellar filament cap protein (fliD)
TP0965	Membrane fusion protein
TP0966	Hypothetical protein
TP0967	Hypothetical protein
TP0968	Hypothetical protein
TP0969	Hypothetical protein
TP0992	Conserved hypothetical protein
TP0997#	Protease IV (sppA)
TP1005#	Flagellar basal-body rod protein (flgG-1)
TP1014	Hypothetical protein
TP1016	Basic membrane protein
TP1031	Tpr protein L (TprL)

TMBETADISC (Amino acid composition)

TP0042◆	Hypothetical protein
TP0062#	Single-strand DNA binding protein (ssb)
TP0095	Hypothetical protein
TP0098#	Heat-shock protein, putative

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TP0099#	Uridylate kinase (smbA)
TP0117	Tpr protein D (TprD)
TP0118	Hypothetical protein
TP0131	Tpr protein D (TprD)
TP0134	Hypothetical protein
TP0155	Conserved hypothetical protein
TP0171●	Lipoprotein
TP0190#	Ribosomal protein L4 (rplD)
TP0220#	Anti-sigma F factor antagonist (spolIIA-1)
TP0271#	Chromosome partitioning protein (parB)
TP0282	Hypothetical protein
TP0325	Conserved hypothetical protein
TP0326	BamA ortholog
TP0334◆	Conserved hypothetical protein
TP0352	Hypothetical protein
TP0363#	Chemotaxis histidine kinase (cheA)
TP0376	Hypothetical protein
TP0453●	Hypothetical protein
TP0468	Conserved hypothetical protein
TP0469	Conserved hypothetical protein
TP0474	Conserved hypothetical protein
TP0482	Hypothetical protein
TP0486●	Antigen p83/100
TP0487	Hypothetical protein
TP0571◆	Tp70
TP0574#	Carboxypeptidase,
TP0597	Hypothetical protein
TP0620	Tpr protein I (TprI)
TP0621	Tpr protein J (TprJ)
TP0622●	Hypothetical protein
TP0648	Conserved hypothetical protein
TP0659#	Flagellar hook-associated protein 3 (flgL)
TP0660#	Flagellar hook-associated protein

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TP0674	Hypothetical protein
TP0684#	Methylgalactoside ABC transporter, periplasmic galactose-binding protein (mgIB-2)
TP0698	Hypothetical protein
TP0700	Hypothetical protein
TP0705#	Penicillin-binding protein (pbp-2)
TP0710	Conserved hypothetical protein
TP0722#	Flagellar protein (fliL)
TP0724#	Flagellar motor rotation protein (motB)
TP0727#	Flagellar hook protein (flgE)
TP0729	Hypothetical protein
TP0739	Conserved hypothetical protein
TP0747	Hypothetical protein
TP0768●	TmpA
TP0773#	Periplasmic serine protease DO (htrA-1)
TP0841#	Periplasmic serine protease DO (htrA-2)
TP0844#	Glyceraldehyde 3-phosphate dehydrogenase (gap)
TP0848#	Ribosomal protein L20 (rplT)
TP0855	Hypothetical protein
TP0857	Hypothetical protein
TP0864♦	Conserved hypothetical protein
TP0865	Hypothetical protein
TP0872#	Flagellar filament cap protein (fliD)
TP0905#	Ribosomal protein S16 (rpsP)
TP0928	Hypothetical protein
TP0954●	Conserved hypothetical protein
TP0959	Hypothetical protein
TP0960#	Flagellar basal-body rod protein (flgG-1)
TP0967	Hypothetical protein
TP0969	Hypothetical protein
TP0992	Conserved hypothetical protein
TP0997#	Protease IV (sppA)

TP1014♦ Hypothetical protein
TP1024# Ribosomal protein S9

Bomp

TP0117 Tpr protein C (TprC)
TP0126♦ Hypothetical protein
TP0131 Tpr protein D (TprD)
TP0234# Ribosomal protein L33
TP0325 Conserved hypothetical protein
TP0326 BamA ortholog
TP0346 Hypothetical protein
TP0408 Hypothetical protein
TP0496 Conserved hypothetical protein
TP0544 Hypothetical protein
TP0593♦ Hypothetical protein
TP0620 Tpr protein I (TprI)
TP0684# Methylgalactoside ABC transporter, periplasmic galactose-binding protein (mgIB-2)
TP0865 Hypothetical protein
TP1031 Tpr protein L (TprL)

Hhomp

TP0011 Tpr protein B (TprB)
TP0117 Tpr protein C (TprC)
TP0126♦ Hypothetical protein
TP0131 Tpr protein D (TprD)
TP0292 Tpn50
TP0313 Tpr protein E (TprE)
TP0317 Tpr protein G (TprG)
TP0325 Conserved hypothetical protein
TP0326 BamA ortholog
TP0388# Cell division protein (ftsQ)

Suppl. Table

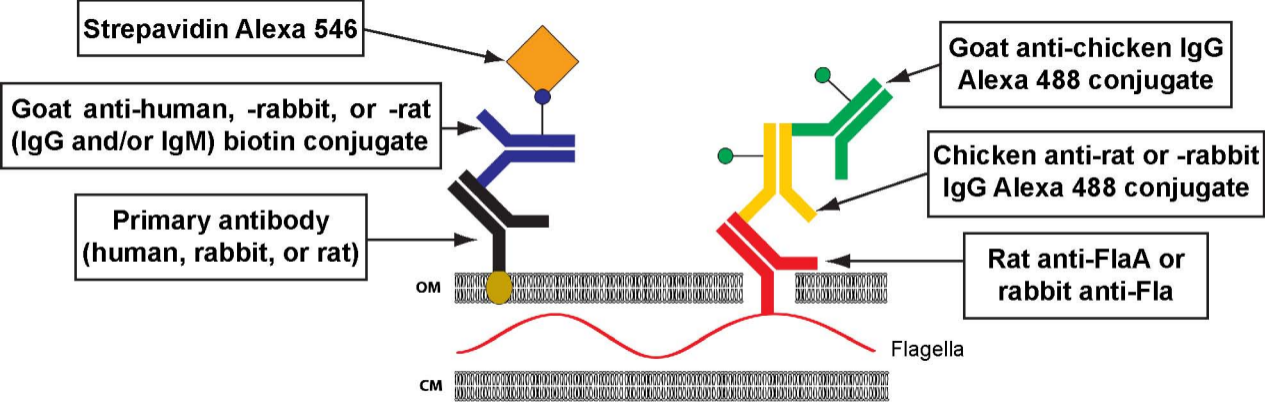
TP0479♦	Hypothetical protein
TP0483	Hypothetical protein
TP0515	Conserved hypothetical protein
TP0548	Hypothetical protein
TP0610	Tpr protein H (TprH)
TP0620	Tpr protein I (TprI)
TP0621	Tpr protein J (TprJ)
TP0646●	Conserved hypothetical protein
TP0697♦	Hypothetical protein
TP0698	Hypothetical protein
TP0733	Hypothetical protein
TP0784●	Hypothetical protein
TP0785	Conserved hypothetical protein
TP0854♦	Hypothetical protein
TP0856	Hypothetical protein
TP0858	Hypothetical protein
TP0859	Hypothetical protein
TP0860	Hypothetical protein
TP0865	Hypothetical protein
TP0897	Tpr protein K (TprK)
TP0969	Hypothetical protein
TP1031	Tpr protein L (TprL)

PredTMDB

TP0011	Tpr protein B (TprB)
TP0117	Tpr protein D (TprD)
TP0131	Tpr protein D (TprD)
TP0313	Tpr protein E (TprE)
TP0317	Tpr protein G (TprG)
TP0326	BamA ortholog
TP0421	Conserved hypothetical protein
TP0548	Hypothetical protein

Suppl. Table

TP0620	Tpr protein I (TprI)
TP0621	Tpr protein J (TprJ)
TP0714#	Flagellar biosynthesis protein (flhA)
TP0727#	Flagellar hook protein (flgE)
TP0856	Hypothetical protein
TP0858	Hypothetical protein
TP0865	Hypothetical protein
TP0897	Tpr protein K (TprK)
TP0923	Hypothetical protein
TP0966	Hypothetical protein
TP0969	Hypothetical protein
TP1031	Tpr protein L (TprL)



Group 1

TP0326 (BamA) **MLKKASAFLIASCCVMSLAWAQA**^(S,P,SCF)ANDNWYEGKPIAISIFEGLEYI

TP0865 (HP) **MVRMRRRRACSSGGACGCAAVRGARSFSLVSVRLGMRIGMSALCLAPLFARTASL**^(P)**GAWSSQ**

Group 2

TP0117/0131 & TP0620 (TprC/D & TprI) **MGRQVMQAGVLAGMVCAASGYA**^(S,P,SCF)**GVLTQPQVSGTAQLQ**

TP0621 (TprJ) **MGCMRWGSLCVVVGASGGV**^(S,P,SCF)**LQEFSPKLTGSATLEWGISYKG**

TP0969 (HP) **MKVLLRVLLSPWGCAVYRTGGGVVSA**^(SCF)**G**MKVLVYAVALGFSGCGG

Group 3

TP0316 (TprF) **VGRQVMQAGVLAGMVCAASGYA**^(S,P,SCF)**GVLTQPQVSGTAQLQWGIAFQK**

TP1031 (TprL) MWAELRLKDLTVDVFESPRPGQAFTLKKPKASFEATLHCYNAYLTIGKD

Group 4

TP0009 (TprA) VVKTRYTTVCMRLVLGSCIFILLRGRATVSRHLHASPAVTISGSTRLTWGINLGAK

TP0011 (TprB) **MGACISVYARFALG**^(SCF)**CGVFFLHGA**^(S)**VLDGVSRAFFSSAAF**

TP0155 (CHP) **MSVYCRSSKQTVREPCRPVPVGALLFVTL**^(S,P,SCF)**LLLLALALAYFGA**^(SCF)**QVPELTPALTTEQEP**^(P)**PRQ**

TP0313 (TprE) **MGCMRWGSLCVVVGASGGV**^(S,P,SCF)**LQEFSPKLTGSATLEWGISYKGVGSH**

TP0325 (CHP) **MAFESVNVGALYQMVA**^(S)**ACTSPQGA**^(SCF)**STLVRALVPLQSTA**^(S,P,SCF)**DFYVSSDFRDISYNCV**

TP0421 (CHP) **MRGGWCLSR**^(S,P,SCF)**SVGCAGALLLFAVGA**^(S,P,SCF)**QEHAPPVVRDTALAGEFRRGVLA**^(S,P,SCF)**YR**

TP0548 (HP) **MRQNGAVPMISCSVRRRPRWEPQVGA**^(P,SCF)**AFLAFALLP**^(P,SCF)**VLSGRGMQAAVATAAG**

TP0729 (HP) **MELRGLLARAIGIGVAESAPAA**^(S,P)**QETISVGTSCAAAPCSFA**^(SCF)**QSLHDHMRGA**

TP0855 (HP) **MRIHQRSAPCVVLLFLPSAPLCA**^(S,P,SCF)**ARGSKDWTTPPQLGEVIESTEQLAE**

TP0858 (HP) **MLRLPTARACITMGTMIRHTFTHRC**^(P)**GALLCALALGSSTMA**^(SCF)**AATAAAKPKKGQMQK**

TP0897 (TprK) **VVYQRVGHRRFSLIFFVVVLGRSPRLWA**^(S)**QV**^(S)**FSFTPDIEGYAELAWGIA**^(S)**XEBGXA**