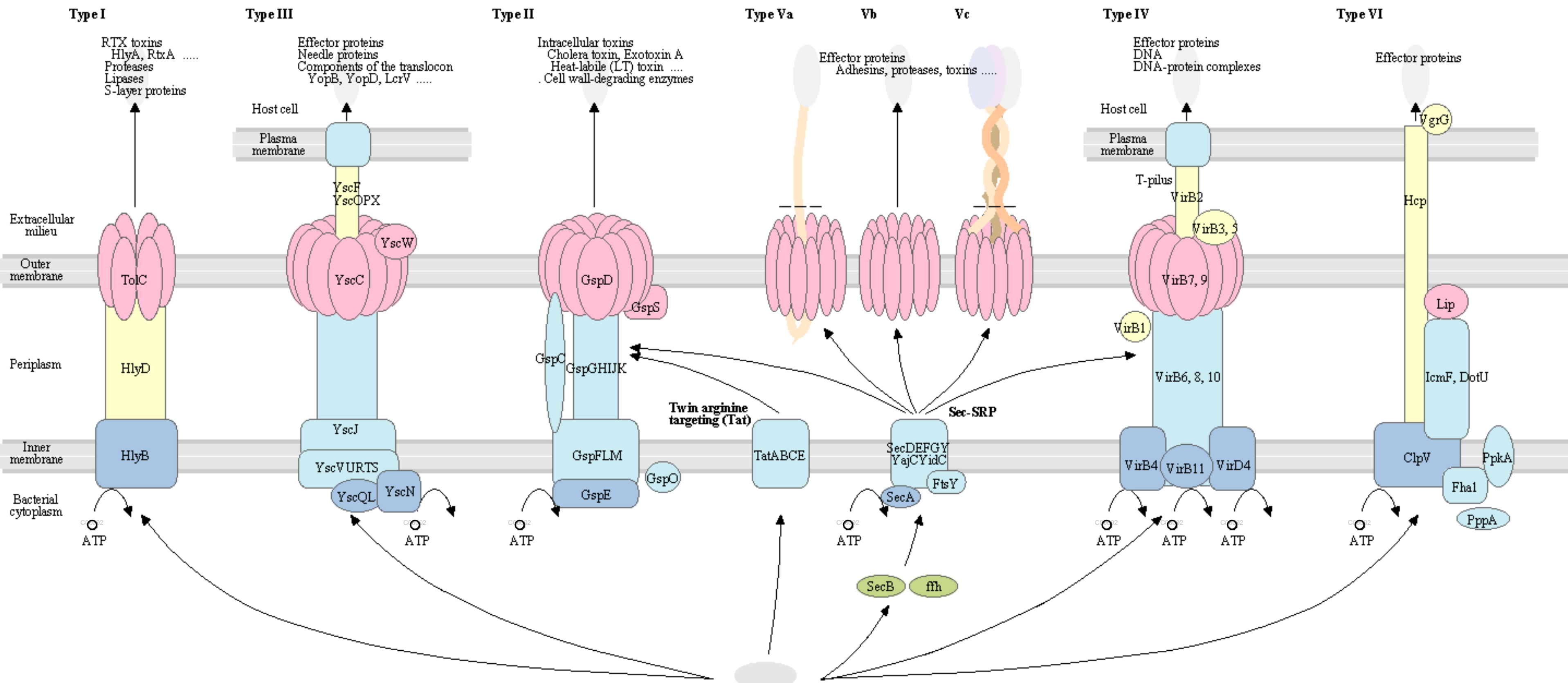


BACTERIAL SECRETION SYSTEM



Type I

Outer membrane protein (OMP)	YscC
Membrane fusion protein	YscD
ABC transporter	YscE

Type III

Needle	YscF	YscG	YscH
Secretin	YscI	YscJ	YscK
OMP	YscL	YscM	YscN
Inner membrane protein (IMP)	YscO	YscP	YscQ
ATPase	YscR	YscS	YscT
ATPase-associated protein	YscU	YscV	YscW

Type II

Secretin	GspD	GspE	GspF
OMP	GspG	GspH	GspI
IMP	GspJ	GspK	GspL
ATPase	GspM	GspN	GspO
Leaderpeptidase	GspP	GspQ	GspR

Sec-SRP

IMP	SecA	SecB	SecE
ATPase	SecF	SecG	SecH
Secretion monitor	SecI	SecJ	SecK
SRP receptor	SecL	SecM	SecN
Targeting protein	SecO	SecP	SecQ

Type Va Vb Vc

OMP	VirB1	VirB2	VirB3
IMP	VirB4	VirB5	VirB6
ATPase	VirB7	VirB8	VirB9
Secretin	VirB10	VirB11	VirB12

Type IV

Periplasmic protein	VirB1	VirB2	VirB3
Surface/pilus protein	VirB4	VirB5	VirB6
OMP	VirB7	VirB8	VirB9
IMP	VirB10	VirB11	VirB12
ATPase	VirB13	VirB14	VirB15

Type VI

Secreted substrate	YscG	YscH	YscI
OMP	YscJ	YscK	YscL
IMP	YscM	YscN	YscO
ATPase	YscP	YscQ	YscR
Regulatory protein	YscS	YscT	YscU