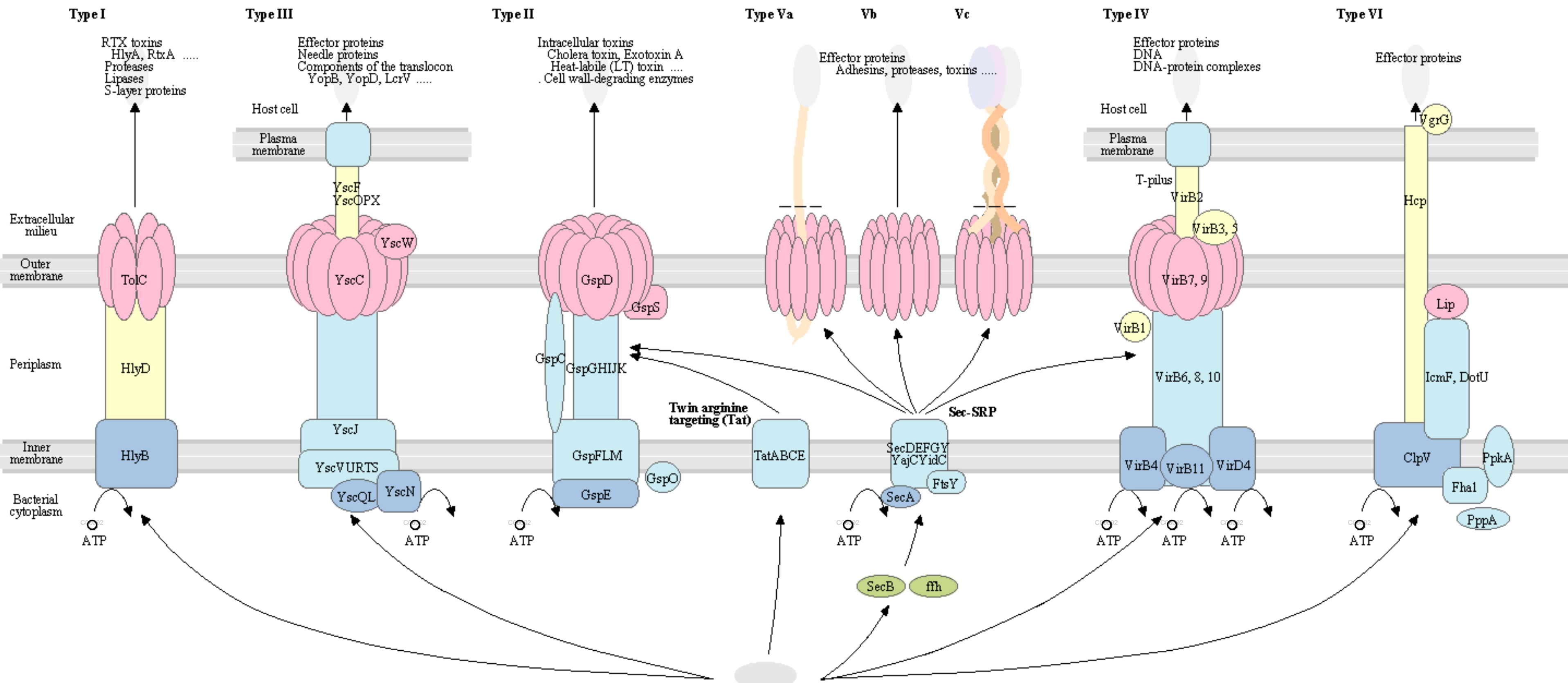


# BACTERIAL SECRETION SYSTEM



**Type I**

Outer membrane protein (OMP)	K12340
Membrane fusion protein	K11003
ABC transporter	K11004

**Type III**

Needle	K03221	K04056	K04057	K04059
Secretin	K03219			
OMP	K04058			
Inner membrane protein (IMP)	K03222	K03226	K03227	
	K03228	K03229	K03230	
ATPase	K03224			
ATPase-associated protein	K03225	K03223		

**Type II**

Secretin	K02453		
OMP	K02465		
IMP	K02452	K02455	K02456
	K02457	K02458	K02459
	K02460	K02461	K02462
ATPase	K02454		
Leaderpeptidase	K02464		

**Sec-SRP**

IMP	K03072...	K03073	K03075
	K03076	K03210	K03217
ATPase	K03070		
Secretion monitor	K13301		
SRP receptor	K03110		
Targeting protein	K03071	K03106	

**Type Va**

OMP	K11028
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**Vb**

	K11017
	K11016

**Vc**

	K12341
	K12342

**Twin arginine targeting (Tat)**

IMP	K03116	K03117	K03118	K03425
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**Type IV**

Periplasmic protein	K03194		
Surface/pilus protein	K03197	K03198	K03200
OMP	K03202	K03204	
IMP	K03201	K03203	K03195
ATPase	K03199	K03196	K03205

**Type VI**

Secreted substrate	K11904		
	K11903		
OMP	K11906		
IMP	K11891	K11892	
ATPase	K11907		
Regulatory protein	K11912	K11913	K11915