

Component	Domain	Archaea			Bacteria
	Eukarya	Asgardarchaeota	Crenarchaeota	Euryarchaeota	
Lipid carrier	Dol	Dol	Dol	Dol	Und
Linkage between N-glycan and lipid carrier	PP	?	PP	P	PP
Nucleotide activated sugar donor	yes	?	yes	yes	yes
Lipid activated sugar donor	yes	?	yes	yes	no
Oligosaccharyltransferase	Stt3/ STT3A/STT3B	AgIB (Stt3-like)	AgIB (Stt3-like)	AgIB (PglB-like)	PglB
DK motif (DXXKXXX(M/I)	yes	yes	yes	yes	
DKi motif (D/E< >KXXXM/I/P)				yes	
MI motif (MXXIXXX(I/V/W)				yes	yes
double sequon DNXTZNXS/T	yes**	yes	yes		
Non-catalytic OST subunits	Ost1/RPN1 Ost5/TMEM258 Swp1/RPN2 Wbp1/DDOST Ost2/DAD1 Ost4 / Ost4 Ost6/TUSC3 or Ost3/MAGT1	RPN1(ribo-phorin-1)* Ost5* Wbp1* Ost6-like/Ost3-like*	n.d.	n.d.	n.d.
First enzymes in the glycosylation	Alg7 Agl14/13	?	AgIH Agl24	diverse	PglC PglA
N-glycan linking sugar(s)	Chitobiose (GlcNAc-β 1,4- GlcNAc -β1-)	?	Chitobiose***	diverse	GalNAc-α1,3-Bac-β1
N-glycan structure	tri-branched	?	di- and tri-branched	linear, di-, tri-branched	linear