

Table S1

Glyco peptide	Glycan form	Possible structures
2,3	Man ₅ GlcNAc ₂	$\begin{array}{c} \text{Man } \alpha 1 \text{---} 6 \\ \text{Man } \alpha 1 \text{---} 3 \text{---} \text{Man } \alpha 1 \text{---} 6 \\ \text{Man } \alpha 1 \text{---} 3 \text{---} \text{Man } \beta 1 \text{---} 4 \text{GlcNAc } \beta 1 \text{---} 4 \text{GlcNAc} \\ \text{Man } \alpha 1 \end{array}$
4,5	Man ₆ GlcNAc ₂	$\begin{array}{c} \text{Man } \alpha 1 \text{---} 6 \\ \text{Man } \alpha 1 \text{---} 3 \text{---} \text{Man } \alpha 1 \text{---} 6 \\ \text{Man } \alpha 1 \text{---} 2 \text{---} \text{Man } \alpha 1 \text{---} 3 \text{---} \text{Man } \beta 1 \text{---} 4 \text{GlcNAc } \beta 1 \text{---} 4 \text{GlcNAc} \end{array}$
6,7	Man ₇ GlcNAc ₂	$\begin{array}{c} \text{Man } \alpha 1 \left\{ \begin{array}{l} 2 \text{Man } \alpha 1 \text{---} 6 \\ 2 \text{Man } \alpha 1 \text{---} 3 \end{array} \right. \text{---} \text{Man } \alpha 1 \text{---} 6 \\ \text{Man } \alpha 1 \text{---} 3 \text{---} \text{Man } \beta 1 \text{---} 4 \text{GlcNAc } \beta 1 \text{---} 4 \text{GlcNAc} \\ 2 \text{Man } \alpha 1 \text{---} 2 \text{Man } \alpha 1 \end{array}$
8,9	Man ₈ GlcNAc ₂	$\begin{array}{c} \text{Man } \alpha 1 \left\{ \begin{array}{l} 2 \text{Man } \alpha 1 \text{---} 6 \\ 2 \text{Man } \alpha 1 \text{---} 3 \end{array} \right. \text{---} \text{Man } \alpha 1 \text{---} 6 \\ \text{Man } \alpha 1 \text{---} 3 \text{---} \text{Man } \beta 1 \text{---} 4 \text{GlcNAc } \beta 1 \text{---} 4 \text{GlcNAc} \\ 2 \text{Man } \alpha 1 \text{---} 2 \text{Man } \alpha 1 \end{array}$
10	Man ₃ GlcNAc ₂	$\begin{array}{c} \text{Man } \alpha 1 \text{---} 6 \\ \text{Man } \alpha 1 \text{---} 3 \text{---} \text{Man } \beta 1 \text{---} 4 \text{GlcNAc } \beta 1 \text{---} 4 \text{GlcNAc} \end{array}$
11	Man ₃ GlcNAc ₅	$\begin{array}{c} \text{GlcNAc } \beta 1 \text{---} 2 \text{Man } \alpha 1 \text{---} 6 \\ \text{GlcNAc } \beta 1 \text{---} 2 \text{Man } \alpha 1 \text{---} 3 \text{---} \text{GlcNAc } \beta 1 \text{---} 4 \text{Man } \beta 1 \text{---} 4 \text{GlcNAc } \beta 1 \text{---} 4 \text{GlcNAc} \end{array}$
		$\begin{array}{c} \text{Man } \alpha 1 \text{---} 6 \\ \text{GlcNAc } \beta 1 \text{---} 4 \text{---} \text{GlcNAc } \beta 1 \text{---} 4 \text{Man } \beta 1 \text{---} 4 \text{GlcNAc } \beta 1 \text{---} 4 \text{GlcNAc} \\ \text{GlcNAc } \beta 1 \text{---} 2 \text{---} \text{Man } \alpha 1 \text{---} 3 \end{array}$
12	Man ₃ GlcNAc ₆	$\begin{array}{c} \text{GlcNAc } \beta 1 \text{---} 2 \text{Man } \alpha 1 \text{---} 6 \\ \text{GlcNAc } \beta 1 \text{---} 4 \text{---} \text{GlcNAc } \beta 1 \text{---} 4 \text{Man } \beta 1 \text{---} 4 \text{GlcNAc } \beta 1 \text{---} 4 \text{GlcNAc} \\ \text{GlcNAc } \beta 1 \text{---} 2 \text{---} \text{Man } \alpha 1 \text{---} 3 \end{array}$
		$\begin{array}{c} \text{GlcNAc } \beta 1 \text{---} 4 \text{---} \text{Man } \alpha 1 \text{---} 6 \\ \text{GlcNAc } \beta 1 \text{---} 2 \text{---} \text{GlcNAc } \beta 1 \text{---} 4 \text{Man } \beta 1 \text{---} 4 \text{GlcNAc } \beta 1 \text{---} 4 \text{GlcNAc} \\ \text{GlcNAc } \beta 1 \text{---} 2 \text{---} \text{Man } \alpha 1 \text{---} 3 \end{array}$
13	Gal ₁ Man ₃ GlcNAc ₆	$\begin{array}{c} \text{Gal } \beta 1 \left\{ \begin{array}{l} 4 \text{GlcNAc } \beta 1 \text{---} 2 \text{Man } \alpha 1 \text{---} 6 \\ 4 \text{GlcNAc } \beta 1 \text{---} 4 \text{---} \text{GlcNAc } \beta 1 \text{---} 4 \text{Man } \beta 1 \text{---} 4 \text{GlcNAc } \beta 1 \text{---} 4 \text{GlcNAc} \\ 4 \text{GlcNAc } \beta 1 \text{---} 2 \text{---} \text{Man } \alpha 1 \text{---} 3 \end{array} \right. \end{array}$
		$\begin{array}{c} \text{Gal } \beta 1 \left\{ \begin{array}{l} 4 \text{GlcNAc } \beta 1 \text{---} 4 \text{---} \text{Man } \alpha 1 \text{---} 6 \\ 4 \text{GlcNAc } \beta 1 \text{---} 2 \text{---} \text{GlcNAc } \beta 1 \text{---} 4 \text{Man } \beta 1 \text{---} 4 \text{GlcNAc } \beta 1 \text{---} 4 \text{GlcNAc} \\ 4 \text{GlcNAc } \beta 1 \text{---} 2 \text{---} \text{Man } \alpha 1 \text{---} 3 \end{array} \right. \end{array}$

Glyco peptide	Glycan form	Possible structures
14	Man ₃ GlcNAc ₇	$\begin{array}{l} \text{GlcNAc } \beta 1-6 \\ \text{GlcNAc } \beta 1-4\text{Man } \alpha 1-6 \\ \text{GlcNAc } \beta 1-2 \\ \text{GlcNAc } \beta 1-4\text{Man } \beta 1-4\text{GlcNAc } \beta 1-4\text{GlcNAc} \\ \text{GlcNAc } \beta 1-2\text{Man } \alpha 1-3 \end{array}$
		$\begin{array}{l} \text{GlcNAc } \beta 1-4,6 \\ \text{GlcNAc } \beta 1-2\text{Man } \alpha 1-6 \\ \text{GlcNAc } \beta 1-4 \\ \text{GlcNAc } \beta 1-2\text{Man } \alpha 1-3 \end{array}$
15	Man ₃ GlcNAc ₈	$\begin{array}{l} \text{GlcNAc } \beta 1-6 \\ \text{GlcNAc } \beta 1-4\text{Man } \alpha 1-6 \\ \text{GlcNAc } \beta 1-2 \\ \text{GlcNAc } \beta 1-4\text{Man } \beta 1-4\text{GlcNAc } \beta 1-4\text{GlcNAc} \\ \text{GlcNAc } \beta 1-2\text{Man } \alpha 1-3 \end{array}$
16	Gal ₁ Man ₃ GlcNAc ₈	$\begin{array}{l} \text{Gal } \beta 1- \\ \left\{ \begin{array}{l} 4\text{GlcNAc } \beta 1-6 \\ 4\text{GlcNAc } \beta 1-4\text{Man } \alpha 1-6 \\ 4\text{GlcNAc } \beta 1-2 \\ 4\text{GlcNAc } \beta 1-4\text{Man } \alpha 1-3 \\ 4\text{GlcNAc } \beta 1-2 \end{array} \right. \\ \text{GlcNAc } \beta 1-4\text{Man } \beta 1-4\text{GlcNAc } \beta 1-4\text{GlcNAc} \end{array}$
17, 19-21	Xyl ₁ Man ₃ Fuc ₁ GlcNAc ₂	$\begin{array}{l} \text{Man } \alpha 1-6 \\ \text{Man } \alpha 1-3\text{Man } \beta 1-4\text{GlcNAc } \beta 1-4\text{GlcNAc} \\ \text{Man } \alpha 1-2 \\ \text{Xyl } \beta 1 \\ \text{Fuc } \alpha 1-3\text{GlcNAc} \end{array}$
18	Xyl ₁ Man ₃ GlcNAc ₂	$\begin{array}{l} \text{Man } \alpha 1-6 \\ \text{Man } \alpha 1-3\text{Man } \beta 1-4\text{GlcNAc } \beta 1-4\text{GlcNAc} \\ \text{Man } \alpha 1-2 \\ \text{Xyl } \beta 1 \end{array}$
22	NeuAc ₃ Gal ₃ Man ₃ GlcNAc ₅	$\begin{array}{l} \text{NeuAc } \alpha 2-3,6\text{Gal } \beta 1-4\text{GlcNAc } \beta 1-2\text{Man } \alpha 1-6 \\ \text{NeuAc } \alpha 2-3,6\text{Gal } \beta 1-4\text{GlcNAc } \beta 1-4\text{Man } \beta 1-4\text{GlcNAc } \beta 1-4\text{GlcNAc} \\ \text{NeuAc } \alpha 2-3,6\text{Gal } \beta 1-4\text{GlcNAc } \beta 1-2\text{Man } \alpha 1-3 \end{array}$
23	NeuAc ₄ Gal ₃ Man ₃ GlcNAc ₅	$\begin{array}{l} \text{NeuAc } \alpha 2-3,6\text{Gal } \beta 1-4\text{GlcNAc } \beta 1-2\text{Man } \alpha 1-6 \\ \text{NeuAc } \alpha 2-3,6\text{GlcNAc } \beta 1-4\text{Man } \beta 1-4\text{GlcNAc } \beta 1-4\text{GlcNAc} \\ \text{NeuAc } \alpha 2-3,6\text{Gal } \beta 1-4\text{GlcNAc } \beta 1-4\text{Man } \alpha 1-3 \\ \text{NeuAc } \alpha 2-3,6\text{Gal } \beta 1-4\text{GlcNAc } \beta 1-2 \end{array}$
		$\begin{array}{l} \text{NeuAc } \alpha 2-3,6\text{Gal } \beta 1-4\text{GlcNAc } \beta 1-2\text{Man } \alpha 1-6 \\ \text{NeuAc } \alpha 2-3,6\text{Gal } \beta 1-4\text{GlcNAc } \beta 1-4\text{Man } \beta 1-4\text{GlcNAc } \beta 1-4\text{GlcNAc} \\ \text{NeuAc } \alpha 2-3,6\text{Gal } \beta 1-4\text{GlcNAc } \beta 1-2\text{Man } \alpha 1-3 \\ \text{NeuAc } \alpha 2-3,6 \end{array}$