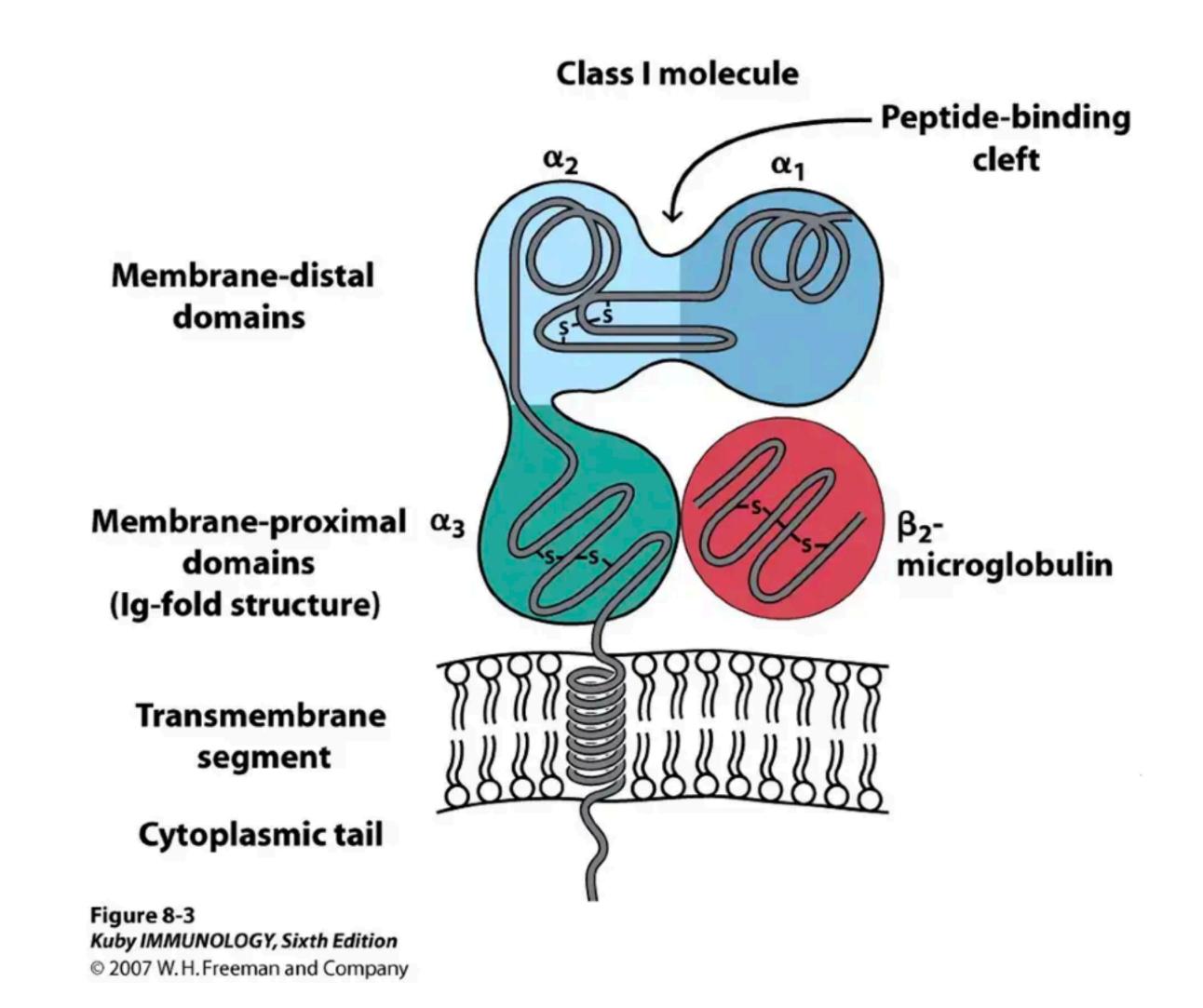
MHC Class 1 Molecules

- Present linear foreign peptides which are most commonly 9 or 10 amino acids long
- Anchor sites (2 and 9) are usually important for binding and recognition
- Mutations which alter the peptide can hinder or prevent CTL response activation



Rapid SIV sequence evolution in macaques in response to CTL-driven selection

- SIV: the only animal model of HIV (rhesus macaques)
- Experimental infection with MHC-matched strain of SIV
- Virus sequenced from a sample 2 weeks post infection
- Only variation was in an epitope recognized by the MHC
 - CTL escape

•	10	20	30	40	50	60	70	80	90	
	METPLREQENSLES	SNERSSCISE	ada <mark>stpesanl</mark>	GEEILSQLY	RPLEACYNTC	YCKKCCYHCQ:	FCFLKKGLGI	CYEQSRKRRR	TPKKAKANTSSASN	
96114			<mark></mark>							(7/9)
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