

Toggle Site	Primigravidae (N=35)			Multigravidae (N= 30)			aa Site		
1	S	P		S	P		1232		
	85.70%	14.30%		90.00%	10.00%				
2	R	I	T*	R	I	T*	1234		
	18.40%	22.40%	59.00%	3.30%	23.30%	73.30%			
3	K	F		K	F		1238		
	65.30%	34.70%		53.30%	46.70%				
4	Q	K		Q	K		1248		
	93.80%	6.20%		86.70%	13.30%				
5	I	M	T	I	M	T	1254		
	2.10%	2.10%	95.80%	0.00%	0.00%	100.00%			
6	T	I*		T	I*		1260		
	89.60%	10.40%		96.70%	3.30%				
7	N*	E*	V	N*	E*	V	1276		
	31.40%	68.60%	0.00%	53.30%	43.30%	3.30%			
8	D*	H*		D*	H*		1291		
	78.40%	21.60%		100.00%	2.00%				
9	N	Q		N	Q		1298		
	70.00%	30.00%		76.70%	23.30%				
10	K	T		K	T		1317		
	86.30%	13.70%		93.30%	6.70%				
11	D*	P*	H*	D*	P*	H*	1326		
	41.40%	58.60%	0.00%	68.60%	19.60%	10.80%			
12	Q	E	G	Q	E	G	1329		
	0.00%	28.00%	72.00%	3.30%	26.70%	70.00%			
13	P	S		P	S		1336		
	30.00%	70.00%		34.40%	68.60%				
14	I	T		I	T		1365		
	73.50%	26.50%		70.00%	30.00%				
15	TKQN	PQQN	TKTK	PQQK	TKQN	PQQN	TKTK	PQQK	1385-1388
	16.00%	11.00%	29.00%	44%	38.00%	40.00%	7.00%	15.00%	
16	GIEGE	GIERE	EIEKD	GIEGE	GIERE	EIEKD			1407-1411
	28.00%	37.00%	35.00%	30.00%	40.00%	30.00%			
17	I	T		I	T		1424		
	92.20%	7.80%		86.70%	13.30%				
18	G	I	V	G	I	V	1434		
	50.00%	50.00%	0.00%	52.00%	38.00%	10.00%			
19	S*	F*		S*	F*		1450		
	44.00%	56.00%		20.00%	80.00%				
20	R*	Q*	E	R	Q	E	1467		
	36.70%	63.30%	0.00%	52.90%	35.30%	0.00%			
21	N*	I*		N*	I*		1478		
	74.50%	25.50%		40.00%	60.00%				
22	N	E		N	E		1482		
	80.60%	19.40%		86.20%	13.80%				
23	C	Y		C	Y		1486		
	94.60%	5.40%		100.00%	0.00%				
24	N	Q		N	Q		1493		
	41.40%	58.60%		40.00%	60.00%				
25	D*	K*	N	D*	K*	N	1496		
	56.70%	36.70%	3.30%	93.90%	4.10%	2.00%			
26	I	V		I	V		1497		
	76.00%	24.00%		65.60%	34.40%				
27	A	D		A	D		1500		
	56.00%	44.00%		56.70%	43.30%				

Supplementary Table 1. Relative proportions of toggling amino acids at each amino acid position.

Amino acids found to toggle were stratified by gravidity. Relative proportions of occupying amino acids at each respective site within each group are represented as a percentage. Nine sites (shown in grey and denoted by an asterisk) were found to differ statistically significantly (χ^2 , $P < 0.05$) between the gravidity groups.