

表 2 小麦淀粉合成酶不同结构域氨基酸组分分析

Table 2 Amino acid frequencies of starch synthases different domain. All frequencies are given in percent

		Ala	Cys	Asp	Glu	Phe	Gly	His	Ile	Lys	Leu	Met	Asn	Pro	Gln	Arg	Ser	Thr	Val	Trp	Tyr
A	TaSS I	9.27	1.93	4.63	5.02	4.25	10.42	3.86	3.09	3.09	9.27	1.16	3.86	5.41	1.93	4.63	6.18	3.86	9.27	2.32	6.56
	TaSS II-1	8.61	1.64	6.15	5.74	4.10	10.25	4.92	4.92	4.10	6.56	2.87	2.46	5.33	2.87	5.33	1.64	2.05	11.48	2.05	6.97
	TaSS II-2	8.61	1.64	6.15	5.74	4.10	10.25	4.92	4.51	4.10	6.97	2.87	2.46	5.33	2.87	5.33	1.64	2.05	11.48	2.05	6.97
	TaSS II-3	8.61	1.64	6.15	5.74	4.10	10.25	4.92	4.51	4.10	6.97	2.87	2.46	5.33	2.87	5.33	1.64	2.05	11.48	2.05	6.97
	TaGBSS I	7.28	2.68	8.05	5.36	5.36	8.05	1.92	4.51	5.75	7.66	1.92	4.60	4.60	2.68	5.75	5.75	2.68	7.66	1.53	6.13
	TaGBSS II	5.36	2.68	5.75	4.98	5.75	8.43	3.07	4.60	5.36	8.43	2.30	4.60	6.13	1.53	4.98	3.07	5.75	12.26	1.92	4.21
	Avg	7.93	2.05	6.15	5.42	4.63	9.58	3.90	3.45	4.43	7.67	2.31	3.44	5.35	2.45	5.22	3.37	3.11	10.58	1.98	6.28
B	TaSSIII-1	7.07	2.53	5.05	5.05	5.05	8.08	6.06	6.06	3.54	6.57	2.02	2.53	3.54	3.03	5.05	7.58	5.05	9.60	2.02	4.55
	TaSSIII-2	5.56	3.03	4.04	4.55	5.56	9.60	7.07	6.06	5.56	6.57	1.52	3.54	3.03	3.03	2.02	9.09	3.54	10.10	2.53	4.04
	TaSSIV	8.64	2.06	6.17	4.53	4.94	7.41	4.53	4.94	4.94	8.23	2.06	4.12	3.70	4.12	4.94	5.35	3.70	9.05	1.65	4.94
	Avg	7.20	2.50	5.16	4.69	5.16	8.29	5.79	5.63	4.69	7.20	1.88	3.44	3.44	3.44	4.07	7.20	4.07	9.55	2.03	4.54
C	TaSS I	4.49	1.12	5.06	7.30	5.62	11.24	1.69	4.49	5.62	9.55	5.06	1.12	6.18	2.81	5.62	5.62	5.62	6.74	2.81	2.25
	TaSS II-1	8.48	1.21	6.67	5.45	4.24	10.30	5.45	3.64	2.42	12.12	3.03	1.21	4.85	3.64	8.48	3.03	3.64	8.48	1.82	1.82
	TaSS II-2	7.88	1.21	6.67	5.45	4.24	11.52	4.85	3.64	2.42	12.12	3.03	1.21	4.85	4.24	8.48	2.42	3.64	8.48	1.82	1.82
	TaSS II-3	8.48	1.21	6.67	5.45	4.24	10.30	5.45	3.64	2.42	12.12	3.03	1.21	4.85	4.24	7.88	3.03	3.64	8.48	1.82	1.82
	TaGBSS I	8.65	2.70	4.32	7.57	3.24	8.11	1.62	4.32	8.65	9.19	4.32	1.62	5.41	3.78	4.86	2.70	4.86	12.97	0.00	1.08
	TaGBSS II	8.70	1.63	3.26	8.15	5.43	8.15	1.63	8.15	4.89	8.15	4.35	3.80	5.43	4.89	2.72	5.43	3.80	9.78	0.00	1.63
	Avg	7.77	1.54	5.37	6.62	4.51	9.88	3.36	4.70	4.51	10.46	3.84	1.73	5.28	3.93	6.24	3.74	4.22	9.21	1.34	1.73
D	TaSSIII-1	7.57	1.62	8.65	2.16	4.86	9.73	5.41	7.57	3.78	10.81	0.54	2.70	3.78	3.78	6.49	5.41	4.32	7.03	1.08	2.70
	TaSSIII-2	7.57	1.62	9.19	4.32	3.78	9.19	4.32	7.03	3.24	11.89	0.54	2.16	3.78	3.78	7.03	5.41	5.95	4.32	1.08	3.78
	TaSSIV	7.69	2.20	5.49	6.04	5.49	6.59	2.20	7.14	4.40	8.79	2.75	4.40	4.95	5.49	5.49	6.04	3.85	7.14	0.55	3.30
	Avg	7.61	1.81	7.79	4.17	4.71	8.51	3.99	7.25	3.80	10.51	1.27	3.08	4.17	4.35	6.34	5.62	4.71	6.16	0.91	3.26

注: A: 第一组(SS I, SS II 和 GBSS)淀粉合成酶催化结构域氨基酸组分分析; B: 第二组(SSIII和 SSIV)淀粉合成酶催化结构域氨基酸组分分析; C: 第一组(SS I, SS II 和 GBSS)淀粉合成酶糖原转移结构域氨基酸组分分析; D: 第二组(SSIII和 SSIV)淀粉合成酶糖原转移结构域氨基酸组分分析

Note: A: Amino acid frequencies of starch synthase catalytic domain of group 1 (SS I, SS II and GBSS); B: Amino acid frequencies of starch synthase catalytic domain of group 2 (SSIII and SSIV); C: Amino acid frequencies of glycosyl transferases domain of group 1 (SS I, SS II and GBSS); D: Amino acid frequencies of glycosyl transferases domain of group 2 (SSIII and SSIV)