

Table 3 The QTL analysis of related traits to leaf sheath

Traits	Locus	Chr.	Marker interval	LOD value	H ² (%)	Additive effect
Length of 1 st sheath from top	<i>qLT-1</i>	1	RM486–RM5389	2.59	9.60	–2.718
	<i>qLT-6</i>	6	RM3–RM162	4.20	14.70	3.172
	<i>qLT-8</i>	8	RM1376–RM4085	4.81	21.30	3.915
	<i>qLT-11</i>	11	RM21–RM3428	3.85	15.30	–3.234
Length of 2 st sheath from top	<i>qLS-1</i>	1	RM5389–RM1198	3.29	10.10	–2.137
	<i>qLS-4</i>	4	RM548–RM6997	4.13	35.30	–3.840
	<i>qLS-11</i>	11	RM21–RM3428	3.93	13.70	–2.394
Length of 3 st sheath from top	<i>qLT-1</i>	1	RM486–RM5389	3.33	9.10	–2.132
	<i>qLT-4</i>	4	RM548–RM6997	3.41	24.30	–3.406
	<i>qLT-11</i>	11	RM21–RM3428	3.73	12.00	–2.405
Dry weight of 1 st sheath from top	<i>qDF-1a</i>	1	RM428–RM5302	3.63	9.80	0.053
	<i>qDF-1b</i>	1	RM5389–RM1198	2.87	7.70	–0.049
	<i>qDF-4</i>	4	RM548–RM6997	4.12	28.60	–0.091
Dry weight of 2 st sheath from top	<i>qDS-1a</i>	1	RM428–RM5302	3.52	11.80	0.070
	<i>qDS-1b</i>	1	RM5389–RM1198	3.92	11.50	–0.072
	<i>qDF-4</i>	4	RM548–RM6997	2.81	19.90	–0.090
	<i>qDS-6</i>	6	RM585–RM6917	2.62	7.70	–0.058
	<i>qDS-10</i>	10	RM5271–RM216	3.27	10.80	0.070
Dry weight of 3 st sheath from top	<i>qDT-1</i>	1	RM5389–RM1198	3.33	10.20	–0.062
	<i>qDT-6</i>	6	RM585–RM6917	2.65	7.60	–0.053
	<i>qDT-10</i>	10	RM5271–RM216	3.46	10.90	0.066
Thickness of 1 st sheath from top	<i>qTF-1</i>	1	RM428–RM5302	2.73	9.50	0.172
	<i>qTF-4</i>	4	RM548–RM6997	3.50	26.00	–0.282
Thickness of 2 nd sheath from top	<i>qTS-1a</i>	1	RM428–RM5302	4.54	19.60	0.329
	<i>qTS-1b</i>	1	RM5389–RM1198	3.06	8.30	–0.220
	<i>qTS-6</i>	6	RM585–RM6917	3.57	10.50	–0.244
	<i>qTS-10</i>	10	RM5271–RM216	4.23	14.30	0.291
Thickness of 3 rd sheath from top	<i>qTT-1</i>	1	RM1198–RM104	2.58	7.50	–0.211
	<i>qTT-6</i>	6	RM585–RM6917	2.59	7.60	–0.208
	<i>qTT-8</i>	8	RM1111–RM310	3.96	12.00	–0.256
	<i>qTT-10</i>	10	RM5271–RM216	4.02	13.70	0.288