Resistance to Acetyl Coenzyme A Carboxylase (ACCase) inhibitor in *Lolium multiflorum*: Effect of Multiple Target-Site Mutations

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Table S1: Collection Details of Ryegrass Populations used in this Study

Populations	Year of	State	county name	Field num	Experiment allocation
09MS-3	2009	Mississippi	NA	NA	dCAPS assay
09MS-8	2009	Mississippi	NA	NA	dCAPS assay
09NC-02	2009	North Carolina	NA	NA	dCAPS assay
09NC-03	2009	North Carolina	NA	NA	dCAPS assay
10GA-1	2010	Georgia	NA	NA	Sanger sequencing
10NC-01	2010	North Carolina	NA	NA	Foliar reponse to diclofop and pinoxaden, dCAPS assay
11AR-03	2011	Arkansas	NA	NA	dCAPS assay
11AR-04	2011	Arkansas	NA	NA	dCAPS assay
11AR-05	2011	Arkansas	NA	NA	Foliar reponse to diclofop and pinoxaden, dCAPS assay
11NC-04	2011	North Carolina	NA	NA	Sanger sequencing
11NC-05	2011	North Carolina	NA	NA	dCAPS assay
11NC-06	2011	North Carolina	NA	NA	dCAPS assay
12AR-WR-E	2012	Arkansas	Woodruff	E	Sanger sequencing
12AR-WR-W	2012	Arkansas	Woodruff	W	Foliar reponse to diclofop and pinoxaden, dCAPS assay
13AL-01	2013	Alabama	NA	NA	dCAPS assay
13AL-02	2013	Alabama	NA	NA	Sanger sequencing
15AR-GRE-1	2015	Arkansas	Greene	1	Foliar reponse to diclofop and pinoxaden, dCAPS assay
15AR-GRE-10	2015	Arkansas	Greene	10	Foliar reponse to diclofop and pinoxaden
15AR-GRE-2	2015	Arkansas	Greene	2	Foliar reponse to diclofop and pinoxaden
15AR-GRE-3	2015	Arkansas	Greene	3	Foliar reponse to diclofop and pinoxaden
15AR-GRE-4	2015	Arkansas	Greene	4	Foliar reponse to diclofop and pinoxaden, dCAPS assay
15AR-GRE-5	2015	Arkansas	Greene	5	Foliar reponse to diclofop and pinoxaden
15AR-GRE-6	2015	Arkansas	Greene	6	Foliar reponse to diclofop and pinoxaden, dCAPS assay
15AR-GRE-7	2015	Arkansas	Greene	7	Foliar reponse to diclofop and pinoxaden, dCAPS assay
15AR-GRE-8	2015	Arkansas	Greene	8	Foliar reponse to diclofop and pinoxaden
15AR-GRE-9	2015	Arkansas	Greene	9	Foliar reponse to diclofop and pinoxaden, dCAPS assay
15AR-JEF-1	2015	Arkansas	Jefferson	1	Foliar reponse to diclofop and pinoxaden
15AR-WHI-1	2015	Arkansas	White	1	Foliar reponse to diclofop and pinoxaden
15AR-WHI-2	2015	Arkansas	White	2	Foliar reponse to diclofop and pinoxaden, dCAPS assay
15AR-WHI-3	2015	Arkansas	White	3	Foliar reponse to diclofop and pinoxaden, dCAPS assay
15AR-WHI-4	2015	Arkansas	White	4	Foliar reponse to diclofop and pinoxaden, Sanger sequencing
16AR-LON-A	2016	Arkansas	Lonoke	A	Foliar reponse to diclofop and pinoxaden, dCAPS assay
16AR-LON-B	2016	Arkansas	Lonoke	B	Foliar reponse to diclofop and pinoxaden, dCAPS assay
16AR-LON-C	2016	Arkansas	Lonoke	C	Foliar reponse to diclofop and pinoxaden
16AR-LON-D	2016	Arkansas	Lonoke	D	Foliar reponse to diclofop and pinoxaden, dCAPS assay
Tri Star*	2010	Commercial source			Foliar reponse to diclofop and pinoxaden, dCAPS assay, Sanger sequencing

* A commercial *L.perenne* population (Tri Star) was obtained from standard Sutherland Lumber Company ®
in Arkansas and used as used as the susceptible control
NA- Not Available