Table S3 Efficiency of mapping Illumina hiseq2000 RNA-Seq reads against the *I. purpurea* reference transcriptome, a de novo cDNA assembly. Note Bowtie2 reports on paired reads, effectively halving the absolute raw and HQ read counts seen in Table S1.

	Mapped Reads			Unique Alignments	Unique Alignments
Treatments	Sample	(M)	Mapped Reads (%)	(M)	(%)
Glyphosate Susceptible	068-1-1	14.9	47.4	12.8	40.6
	077-1-2	15.1	46.8	12.8	39.6
	079-1-3	9.1	46.5	7.6	39.1
Glyphosate Resistant	336-1-2	33.5	45.6	28.7	39.1
	351-1-2	14.6	65.7	13.6	54.7
	358-1-3	22.2	59.1	19.0	50.6
Total mapped reads					
(millions)		109.4		94.5	
Percent of HQ reads					
mapped		49.4		42.8	
Percent of raw reads					
mapped		47.4		40.8	