

Supplementary material 1

Genotypes used in analyses of variability, identification code, area of cultivation (for cultivated genotypes) and number of reads sequenced by Illumina technique

Type	Name	Code	Id Code	Area of cultivation	Raw reads	Trimmed reads (paired ends)	Trimmed reads (single ends, 75 nt)
Cultivars	Hata	RA	Ames 22503	Argentina	32,100,390	31,624,960	28,833,860
	Dussol	FRA	Ames 22499	France	25,678,406	25,375,912	23,351,379
	Argentario	ITA	Ames 1842	Italy	10,759,866	10,566,652	9,057,186
	Karlik	ESP	Ames 3454	Spain	23,499,752	23,087,458	20,523,246
	Zelenka	RUS	Ames 22530	Russia	9,048,276	8,858,154	7,867,148
	Roman "A"	ROM	PI531386	Romania	19,408,888	19,095,974	16,785,648
	HOPI	USA1	PI369359	USA	15,768,198	15,437,790	13,390,344
	Seneca	USA2	PI369360	USA	13,911,506	13,667,436	12,034,208
Wild accessions	<i>H. annuus</i> Arizona	AZ	Ames14400	-	14,641,510	14,357,666	12,569,563
	<i>H. annuus</i> Colorado	CO	PI586840	-	23,335,576	22,916,284	19,693,252
	<i>H. annuus</i> Illinois	IL	PI 435540	-	18,577,580	18,145,470	15,437,090
	<i>H. annuus</i> Kentucky	KY	PI 435613	-	14,853,802	14,580,828	12,250,326
	<i>H. annuus</i> Mississippi	MS	PI 435608	-	22,921,544	22,226,864	19,183,906
	<i>H. annuus</i> North Dakota	ND	PI586811	-	51,681,332	49,574,892	41,614,232
	<i>H. annuus</i> Washington	WA	PI 531018	-	6,996,658	6,724,410	5,631,210