

Supplemental Table 1. Four cultivars and thirty advanced selections in different maturity groups used in this study.

ID	Maturity Groups
Gala	MG1
Harvester	MG2
Flameprince	MG4
O'Henry	MG4
BY96P3606	MG1
BY96P3803	MG1
BY99P1621	MG1
BY99P3422	MG1
BY00P5737	MG1
BY01P6081	MG1
BY01P6721	MG1
BY04P6670	MG1
BY04P6803	MG1
BY04P6841	MG1
BY05P3118	MG1
BY05P3754	MG1
BY93P4130	MG2
BY96P3262	MG2
BY01P6085	MG2
BY01P6590	MG2
BY01P6945	MG2
BY01P7041	MG2
BY03P1904	MG2
BY04P3630	MG2
BY02P3362	MG3
BY02P3475	MG3
BY06P2120	MG3
BY06P3590	MG3
BY88P4040	MG4
BY95P5518	MG4
BY99P3350	MG4
BY02P4107	MG4
BY05P2121	MG4
BY07P4465	MG4