Additional file 3: Table S1

## A novel *Arabidopsis* marker line that strongly labels uninucleate microspores and the subsequent male gametophyte development stages.

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## Additional file 3: Table S1

| Independent<br>transformant<br>/ lines: | Marker line construct: | Genotype /<br>background: | Notes:  |
|---|------------------------|---------------------------|---|
| GC21<br>(qrt1-1)                        | pAt5g17340:UidA:GFP    | F2<br>Col-0 x Landsberg   | <ul> <li>Descendent from one (1<sup>st</sup>) of the independently transformed <i>pAt5g17340:UidA:GFP</i> lines and <i>qrt1-1</i>.</li> <li>Line containing plants homozygous and heterozygous for the <i>qrt1-1</i> mutation and homozygous and hemizygous for the <i>pAt5g17340:UidA:GFP</i> construct.</li> </ul>  |
| G65                                     | pAt5g17340:UidA:GFP    | Col-0                     | <ul> <li>Descendent from a 2<sup>nd</sup> independently transformed <i>pAt5g17340:UidA:GFP</i> line.</li> <li>Line containing plants homozygous and hemizygous for the <i>pAt5g17340:UidA:GFP</i> construct.</li> <li>The anthers of hemizygous G65 plants exhibit a 50% GFP labelled <i>versus</i> 50% non-GFP labelled pollen ratio; indication of a single T-DNA insertion.</li> <li>Lines descendent from G65, that are heterozygous for <i>qrt1-1</i> and hemizygous for the <i>pAt5g17340:UidA:GFP</i> construct (Hygromycin Resistant:Hygromycin sensitive; 3:1), are also available.</li> </ul> |
| G138                                    | pAt5g17340:UidA:GFP    | Col-0                     | <ul> <li>Descendent from self-pollinated G65.</li> <li>Is homozygous for the <i>pAt5g17340:UidA:GFP</i> construct.</li> </ul>   |
|   |                        |                           |   |

## The different (and independently transformed) lines from the *pAt5g17340:UidA:GFP* marker line reported in this manuscript.

| G57       PAt5g17340.UidA:GFP       Col-0       - Descendent from a -3 - independently transformed pAt5g17340.UidA:GFP line.         G63       PAt5g17340.UidA:GFP       Col-0       - Lines descendent from G57, that are been construct in the pAt5g17340.UidA:GFP construct.         G63       PAt5g17340.UidA:GFP       Col-0       - Descendent from self-pollinated G57.         G64       PAt5g17340.UidA:GFP       Col-0       - University in the pat5g17340.UidA:GFP construct.         G65       PAt5g17340.UidA:GFP       F1       Col-0       - The anthers of hemizygous for the pAt5g17340.UidA:GFP construct.         G7       PAt5g17340.UidA:GFP       F1       Col-0 x Landsberg       - GC3 is descendent from G57 and qr1-1.         G7       PAt5g17340.UidA:GFP       F1       Col-0 x Landsberg       - Descendent from a 4 <sup>th</sup> independently transformed pAt5g17340.UidA:GFP line and qr1-1.         G7       PAt5g17340.UidA:GFP       F1       Col-0 x Landsberg       - Descendent from self-pollinated GC7.         G7       PAt5g17340.UidA:GFP       F2       Col-0 x Landsberg       - Descendent from self-pollinated GC7.         G7       PAt5g17340.UidA:GFP       F2       Col-0 x Landsberg       - Descendent from self-pollinated GC7.   | G57       PA/5g17340:UidA:GFP       Col-0       independently       transformed pA/5g17340:UidA:GFP line.         G63       PA/5g17340:UidA:GFP       Col-0       -       Lines descendent from C57, that are heteroxygous for properties of the pA/5g17340:UidA:GFP construct (Hygromycin sensitive; 3:1), are also available.         G63       PA/5g17340:UidA:GFP       Col-0       -       Descendent from self-pollinated G57.         G63       PA/5g17340:UidA:GFP       Col-0       -       Descendent from self-pollinated G57.         G63       PA/5g17340:UidA:GFP       Col-0       -       Descendent from self-pollinated G57.         G63       PA/5g17340:UidA:GFP       Col-0       -       The anthers of hemizygous for the pA/5g17340:UidA:GFP construct.         G63       PA/5g17340:UidA:GFP       F1       Col-0 x Landsberg       -       GC3 is descendent from G57 and qrt1-1.         G7       PA/5g17340:UidA:GFP       F1       Col-0 x Landsberg       -       GC3 is descendent from a 4 <sup>45</sup> independently transformed pA/5g17340:UidA:GFP line and qrt1-1.         G7       PA/5g17340:UidA:GFP       F1       Col-0 x Landsberg       -       Descendent from a 4 <sup>45</sup> independently transformed pA/5g17340:UidA:GFP line and qrt1-1.         G7       PA/5g17340:UidA:GFP       F2       Col-0 x Landsberg       -       Descendent from self-polinated C7.         G7  |   |                     |       | - Descendent from a 3 <sup>rd</sup>  |
|--|---|---|---------------------|-------|--|
| GC3       pAt5g17340:UidA:GFP       Col-0       -       Descendent from self-pollinated G57.         G63       pAt5g17340:UidA:GFP       Col-0       -       Descendent from self-pollinated G57.         G63       pAt5g17340:UidA:GFP       Col-0       -       Line containing plants homozygous and hemizygous G63 plants exhibit a 50% of COS stained pollen ratio; indication of a single T-DNA insertion.         GC3       pAt5g17340:UidA:GFP       F1       Col-0 x Landsberg       -       GC3 is descendent from G57 and qrt1-1.         GC7       pAt5g17340:UidA:GFP       F1       Col-0 x Landsberg       -       GC3 is descendent from a 4 <sup>th</sup> independently transformed pAt5g17340:UidA:GFP         GC7       pAt5g17340:UidA:GFP       F1       Col-0 x Landsberg       -       Descendent from a 4 <sup>th</sup> independently transformed pAt5g17340:UidA:GFP         GC3       pAt5g17340:UidA:GFP       F1       Col-0 x Landsberg       -       Descendent from a 4 <sup>th</sup> independently transformed pAt5g17340:UidA:GFP         GC7       pAt5g17340:UidA:GFP       F1       Col-0 x Landsberg       -       Descendent from a 4 <sup>th</sup> independently transformed pAt5g17340:UidA:GFP         GC30       pAt5g17340:UidA:GFP       F2       Col-0 x Landsberg       -       CG30 is descendent from self-pollinated GC7.         GC30       pAt5g17340:UidA:GFP       F2       Col-0 x Landsberg       -   | G63       pAt5g17340:UidA:GFP       Col-0       -       Descendent from self-pollinated G57.         G63       pAt5g17340:UidA:GFP       Col-0       -       Descendent from self-pollinated G57.         G63       pAt5g17340:UidA:GFP       Col-0       -       Line containing plants homozygous and hemizygous for the pAt5g17340:UidA:GFP construct.         G63       pAt5g17340:UidA:GFP       Fil       -       Line containing plants homozygous and hemizygous for the pAt5g17340:UidA:GFP construct.         GC3       pAt5g17340:UidA:GFP       Fil       -       The anthers of hemizygous G63 plants exhibit a 50% GUS stained versus 50% non-GUS versus 50% non- | G57                                     | pAt5g17340:UidA:GFP | Col-0 | independently transformed  |
| G63       pAt5g17340:UidA:GFP       Col-0       G57.         G63       pAt5g17340:UidA:GFP       -       Line containing plants homozygous and hemizygous for the pAt5g17340:UidA:GFP construct.         GC3       pAt5g17340:UidA:GFP       -       The anthers of hemizygous G63 plants exhibit a 50% GUS stained versus 50% non-GUS stained pollen ratio; indication of a single T-DNA insertion.         GC3       pAt5g17340:UidA:GFP       F1       -       GC3 is descendent from G57 and qrt1-1.         (qrt1-1)       pAt5g17340:UidA:GFP       F1       -       Line containing plants heterozygous for the qrt1-1.         GC7       pAt5g17340:UidA:GFP       F1       -       Descendent from a 4 <sup>th</sup> independently transformed pAt5g17340:UidA:GFP construct.         GC7       pAt5g17340:UidA:GFP       F1       -       Line containing plants heterozygous for the qrt1-1 mutation and hemizygous for the pAt1g02790:UidA:GFP construct.         GC7       pAt5g17340:UidA:GFP       F1       -       Line containing plants heterozygous for the qrt1-1.         GC30       pAt5g17340:UidA:GFP       F2       -       GC30 is descendent from self-pollinated GC7.         GC30       pAt5g17340:UidA:GFP       F2       -       GC30 is descendent from self-pollinated GC7.         GC30       pAt5g17340:UidA:GFP       F2       -       Ine containing plants homozygous and heterozygous for the pAt5g17340:UidA   | G63       pAt5g17340:UidA:GFP       Col-0       G57.         G63       pAt5g17340:UidA:GFP       Col-0       G57.         -       Line containing plants homozygous and hemizygous for the pAt5g17340:UidA:GFP construct.       -         -       The anthers of hemizygous G63 plants exhibit a 50% GUS stained versus 50% non-GUS stained pollen ratio; indication of a single T-DNA insertion.         -       GC3       pAt5g17340:UidA:GFP       F1         (qrt1-1)       pAt5g17340:UidA:GFP       F1       -         GC7       pAt5g17340:UidA:GFP       F1       -         GC7       pAt5g17340:UidA:GFP       F1       -         Col-0 x Landsberg       -       Descendent from a 4 <sup>th</sup> independently transformed pAt5g17340:UidA:GFP ine and qrt1-1.         GC7       pAt5g17340:UidA:GFP       F1       -         Col-0 x Landsberg       -       Descendent from a 4 <sup>th</sup> independently transformed pAt5g17340:UidA:GFP line and qrt1-1.         GC7       pAt5g17340:UidA:GFP       -       Col-0 x Landsberg         GC30       pAt5g17340:UidA:GFP       -       Col-0 x Landsberg         -       Col-0 x Landsberg       -       GC30 is descendent from self-pollinated GC7.         (qrt1-1)       pAt5g17340:UidA:GFP       -       GC30 is descendent from self-pollinated GC7.         (q   |   |                     |       | are heterozygous for <i>qrt1-1</i> and<br>hemizygous for the<br><i>pAt5g17340:UidA:GFP</i> construct<br>(Hygromycin<br>Resistant:Hygromycin sensitive; |
| GC3<br>(qrt1-1)pAt5g17340:UidA:GFP<br>constructThe anthers of hemizygous G63<br>plants exhibit a 50% GUS stained<br>versus 50% non-GUS stained<br>pollen ratio; indication of a single<br>T-DNA insertion.GC3<br>(qrt1-1)pAt5g17340:UidA:GFPF1<br>Col-0 x Landsberg-GC3 is descendent from G57 and<br>qrt1-1.GC7<br>(qrt1-1)pAt5g17340:UidA:GFPF1<br>Col-0 x Landsberg-Descendent from a 4th<br>independently transformed<br>  | GC3<br>(qrt1-1)pAt5g17340:UidA:GFP<br>Col-0 x LandsbergF1<br>Col-0 x LandsbergGC3 is descendent from 657 and<br>qrt1-1.GC3<br>(qrt1-1)pAt5g17340:UidA:GFP<br>P<br>PF1<br>Col-0 x Landsberg-GC3 is descendent from 657 and<br>qrt1-1.GC7<br>(qrt1-1)pAt5g17340:UidA:GFP<br>P<br>P<br>(qrt1-1)F1<br>Col-0 x Landsberg-GC3 is descendent from a 4 <sup>th</sup><br>independently transformed<br>pAt1g02790:UidA:GFP<br>construct.GC30<br>(qrt1-1)pAt5g17340:UidA:GFP<br>PF1<br>Col-0 x Landsberg-Descendent from a 4 <sup>th</sup><br>independently transformed<br>pAt1g17340:UidA:GFP<br>construct.GC30<br>(qrt1-1)pAt5g17340:UidA:GFP<br>PF2<br>Col-0 x Landsberg-Descendent from self-<br>pollinated GC7.GC30<br>(qrt1-1)pAt5g17340:UidA:GFP<br>PF2<br>Col-0 x Landsberg-CG20 is descendent from self-<br>pollinated GC7.GC30<br>(qrt1-1)pAt5g17340:UidA:GFP<br>PF2<br>Col-0 x LandsbergGC30<br>(qrt1-1)pAt5g17340:UidA:GFP<br>PF2<br>Col-0 x Landsberg-GC30<br>(qrt1-1)pAt5g17340:UidA:GFP<br>PF2<br>Col-0 x Landsberg-GC30<br>(qrt1-1)pAt5g17340:UidA:GFP<br>PF2<br>Col-0 x Landsberg-GC30<br>(qrt1-1)pAt5g17340:UidA:GFP<br>PF2<br>Col-0 x Landsberg-GC30<br>(qrt1-1)pAt5g17340:UidA:GFP<br>PF2<br>Col-0 x Landsberg-GC30<br>(qrt1-1)pAt5g17340:UidA:GFP<br>PGC30<br>(qrt1-1)pAt5g17340:UidA:GFP<br>PGC30<br>(qrt1-1)pAt5g17340:UidA:GFP<br>P  | G63                                     | pAt5g17340:UidA:GFP | Col-0 | _  |
| GC3<br>(qrt1-1)pAt5g17340:UidA:GFPF1<br>Col-0 x Landsberg-GC3 is descendent from G57 and<br>qrt1-1.GC7<br>(qrt1-1)pAt5g17340:UidA:GFPF1<br>Col-0 x LandsbergGC3 is descendent from G57 and<br>qrt1-1.GC7<br>(qrt1-1)pAt5g17340:UidA:GFPF1<br>Col-0 x LandsbergGC7<br>(qrt1-1)pAt5g17340:UidA:GFP<br>(qrt1-1)F1<br>Col-0 x LandsbergGC7<br>(qrt1-1)pAt5g17340:UidA:GFP<br>(qrt1-1)F1<br>Col-0 x LandsbergGC30<br>(qrt1-1)pAt5g17340:UidA:GFP<br>F2<br>Col-0 x LandsbergF2<br>Col-0 x LandsbergGC30<br>(qrt1-1)pAt5g17340:UidA:GFPF2<br>Col-0 x LandsbergGC30 is descendent from self-<br>pollinated GC7.GC30<br>(qrt1-1)pAt5g17340:UidA:GFPF2<br>Col-0 x LandsbergGC30 is descendent from self-<br>pollinated GC7.GC30<br>(qrt1-1)pAt5g17340:UidA:GFPF2<br>Col-0 x LandsbergGC30<br>(qrt1-1)pAt5g17340:UidA:GFPF2<br>Col-0 x LandsbergGC30<br>(qrt1-1)pAt5g17340:UidA:GFPF2<br>Col-0 x LandsbergGC30<br>(qrt1-1)pAt5g17340:UidA:GFPF2<br>Col-0 x LandsbergGC30<br>(qrt1-1)pAt5g17340:UidA:GFPF2<br>Col-0 x LandsbergGC30<br>(qrt1-1)pAt5g17340:UidA:GFPF2<br>Col-0 x LandsbergGC30<br>(qrt1-1)pAt5g17340:U  | GC3<br>(qrt1-1)pAt5g17340:UidA:GFPF1<br>Col-0 x Landsberg-GC3 is descendent from G57 and<br>qrt1-1.GC7<br>(qrt1-1)pAt5g17340:UidA:GFPF1<br>Col-0 x LandsbergGC3 is descendent from G57 and<br>qrt1-1.GC7<br>(qrt1-1)pAt5g17340:UidA:GFPF1<br>Col-0 x LandsbergDescendent from a 4th<br>independently transformed<br>pAt5g17340:UidA:GFPGC7<br>(qrt1-1)pAt5g17340:UidA:GFPF1<br>Col-0 x LandsbergDescendent from a 4th<br>independently transformed<br>pAt5g17340:UidA:GFPGC30<br>(qrt1-1)pAt5g17340:UidA:GFPF2<br>Col-0 x LandsbergCG20 is descendent from self-<br>pollinated GC7.GC30<br>(qrt1-1)pAt5g17340:UidA:GFPF2<br>Col-0 x LandsbergGC30 is descendent from self-<br>pollinated GC7.GC30<br>(qrt1-1)pAt5g17340:UidA:GFPF2<br>Col-0 x LandsbergCG20 is descendent from self-<br>pollinated GC7.GC30<br>(qrt1-1)pAt5g17340:UidA:GFPF2<br>Col-0 x LandsbergCG20 is descendent from self-<br>pollinated GC7.   |   |                     |       | homozygous and hemizygous for<br>the <i>pAt5g17340:UidA:GFP</i>  |
| GC3<br>(qrt1-1)pAt5g17340: UidA: GFPF1<br>Col-0 x Landsbergqrt1-1.(qrt1-1)Line<br>x LandsbergLine<br>  | GC3<br>(qrt1-1)pAt5g17340: UidA: GFPF1<br>Col-0 x Landsbergqrt1-1.(qrt1-1)Line<br>volta constructLine<br>volta constructContaining<br>volta constructGC7<br>(qrt1-1)pAt5g17340: UidA: GFPF1<br>Col-0 x Landsberg-Descendent<br>independently<br>ransformed<br>pAt5g17340: UidA: GFPGC30<br>(qrt1-1)pAt5g17340: UidA: GFPF2<br>Col-0 x Landsberg-Intercostanting<br>ransformed<br>pAt1g02790: UidA: GFPGC30<br>(qrt1-1)pAt5g17340: UidA: GFPF2<br>Col-0 x Landsberg-GC30 is descendent from self-<br>pollinated GC7.GC30<br>(qrt1-1)pAt5g17340: UidA: GFPF2<br>Col-0 x Landsberg-GC30 is descendent from self-<br>pollinated GC7.GC30<br>(qrt1-1)pAt5g17340: UidA: GFPF2<br>Col-0 x Landsberg-GC30 is descendent from self-<br>pollinated GC7.GC30<br>(qrt1-1)pAt5g17340: UidA: GFPF2<br>Col-0 x Landsberg-GC30 is descendent from self-<br>pollinated GC7.GC30<br>(qrt1-1)pAt5g17340: UidA: GFPF2<br>Col-0 x Landsberg-GC30 is descendent from self-<br>pollinated GC7.   |   |                     |       | plants exhibit a 50% GUS stained<br>versus 50% non-GUS stained<br>pollen ratio; indication of a single   |
| GC30<br>(qr11-1)pAt5g17340:UidA:GFP<br>FI<br>Col-0 x Landsberg-Line<br>construct.Containing<br>patts<br>philow<br>   | GC7<br>(qrt1-1)pAt5g17340:UidA:GFP<br>(qrt1-1)F1<br>Col-0 x Landsberg- Descendent from a 4th<br>independently transformed<br>pAt5g17340:UidA:GFP line and<br>qrt1-1.GC30<br>(qrt1-1)pAt5g17340:UidA:GFP<br>FI<br>Col-0 x Landsberg- Descendent from a 4th<br>independently transformed<br>pAt5g17340:UidA:GFP line and<br>qrt1-1.GC30<br>(qrt1-1)pAt5g17340:UidA:GFP<br>FI<br>Col-0 x Landsberg- Line containing plants<br>heterozygous for the qrt1-1<br>mutation and hemizygous for the<br>pAt1g02790:UidA:GFP<br>construct.GC30<br>(qrt1-1)pAt5g17340:UidA:GFP<br>FI<br>FI<br>Col-0 x Landsberg- GC30 is descendent from self-<br>pollinated GC7.GC30<br>(qrt1-1)pAt5g17340:UidA:GFP<br>FI<br>FI<br>Col-0 x Landsberg- GC30 is descendent from self-<br>pollinated GC7.GC30<br>(qrt1-1)pAt5g17340:UidA:GFP<br>FI<br>FI<br>Col-0 x Landsberg- GC30 is descendent from self-<br>pollinated GC7.GC30<br>(qrt1-1)pAt5g17340:UidA:GFP<br>FI<br>FI<br>Col-0 x Landsberg- Line containing plants<br>homozygous and heterozygous<br>for the qrt1-1 mutation and<br>homozygous and heterozygous<br>for the pAt5g17340:UidA:GFP  |   | pAt5g17340:UidA:GFP |       |  |
| GC7<br>(qrt1-1)pAt5g17340:UidA:GFPF1<br>Col-0 x Landsbergindependently<br>pAt5g17340:UidA:GFPtransformed<br>pAt5g17340:UidA:GFPGC30<br>(qrt1-1)pAt5g17340:UidA:GFP-Line<br>constructLine<br>pAt1g02790:UidA:GFP<br>construct.GC30<br>(qrt1-1)pAt5g17340:UidA:GFPF2<br>Col-0 x Landsberg-GC30 is descendent from self-<br>pollinated GC7.CH and be and | GC7<br>(qrt1-1)pAt5g17340:UidA:GFPF1<br>Col-0 x Landsbergindependently<br>pAt5g17340:UidA:GFP line and<br>qrt1-1Line<br>containing<br>plants<br>heterozygous<br>for the<br>qrt1-1-Line<br>pAt1g02790:UidA:GFP<br>construct.GC30<br>(qrt1-1)pAt5g17340:UidA:GFP<br>Col-0 x Landsberg-GC30 is descendent from self-<br>pollinated GC7pAt5g17340:UidA:GFP<br>construct.F2<br>Col-0 x Landsberg-GC30 is descendent from self-<br>pollinated GC7Line<br>containing<br>constructLine<br>containing<br>constructData<br>pollinated GC7Col-0 x LandsbergLine<br>containing<br>constructData<br>pollinated GC7Col-0 x LandsbergLine<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>conta   | ((((((((((((((((((((((((((((((((((((((( |                     |       | heterozygous for the <i>qrt1-1</i><br>mutation and hemizygous for the<br><i>pAt1g02790:UidA:GFP</i>  |
| GC7<br>(qrt1-1)pAt5g17340:UidA:GFPF1<br>Col-0 x Landsbergindependently<br>pAt5g17340:UidA:GFPtransformed<br>pAt5g17340:UidA:GFPGC30<br>(qrt1-1)pAt5g17340:UidA:GFP-Line<br>constructLine<br>   | GC7<br>(qrt1-1)pAt5g17340:UidA:GFPF1<br>Col-0 x Landsbergindependently<br>pAt5g17340:UidA:GFP line and<br>qrt1-1Line<br>containing<br>plants<br>heterozygous<br>for the<br>qrt1-1-Line<br>pAt1g02790:UidA:GFP<br>construct.GC30<br>(qrt1-1)pAt5g17340:UidA:GFP<br>Col-0 x Landsberg-GC30 is descendent from self-<br>pollinated GC7pAt5g17340:UidA:GFP<br>construct.F2<br>Col-0 x Landsberg-GC30 is descendent from self-<br>pollinated GC7Line<br>containing<br>constructLine<br>containing<br>constructData<br>pollinated GC7Col-0 x LandsbergLine<br>containing<br>constructData<br>pollinated GC7Col-0 x LandsbergLine<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>containing<br>conta   |   |                     |       |  |
| GC30<br>(qrt1-1)pAt5g17340:UidA:GFPF2<br>Col-0 x Landsberg-GC30 is descendent from self-<br>pollinated GC7.ClassicalClassical-Col-0 x Landsberg-Line<br>for<br>the<br>qrt1-1-Line<br>for<br>the<br>qrt1-1-HereLine<br>for<br>the<br>qrt1-1Col-0 x LandsbergLine<br>for<br>the<br>qrt1-1Line<br>homozygous and heterozygous<br>for<br>the<br>pAt5g17340:UidA:GFP  | GC30<br>(qrt1-1)pAt5g17340:UidA:GFP<br>(qrt1-1)F2<br>Col-0 x Landsberg-GC30 is descendent from self-<br>pollinated GC7.Cd-0 x Landsberg<br>(qrt1-1)-Line<br>(qrt1-1)-Line<br>(qrt1-1)Line<br>(qrt1-1)   |   | pAt5g17340:UidA:GFP |       | independently transformed <i>pAt5g17340:UidA:GFP</i> line and  |
| GC30<br>(qrt1-1)pAt5g17340:UidA:GFPF2<br>Col-0 x Landsbergpollinated GC7Linecontainingplants<br>homozygous-Linecontainingplants<br>homozygousfortheqrt1-1mutationnomozygousandhemizygousfor<br>the-pAt5g17340:UidA:GFP   | GC30<br>(qrt1-1)       pAt5g17340:UidA:GFP       F2<br>Col-0 x Landsberg       pollinated GC7.         -       Line       containing       plants         homozygous       and heterozygous       for the qrt1-1       mutation         homozygous       and hemizygous for       the       pAt5g17340:UidA:GFP   |   |                     |       | heterozygous for the <i>qrt1-1</i><br>mutation and hemizygous for the<br><i>pAt1g02790:UidA:GFP</i>  |
| - Line containing plants<br>homozygous and heterozygous<br>for the <i>qrt1-1</i> mutation and<br>homozygous and hemizygous for<br>the <i>pAt5g17340:UidA:GFP</i>   | - Line containing plants<br>homozygous and heterozygous<br>for the <i>qrt1-1</i> mutation and<br>homozygous and hemizygous for<br>the <i>pAt5g17340:UidA:GFP</i>  |   | pAt5g17340:UidA:GFP |       |  |
|  |   | (4                                      |                     |       | homozygous and heterozygous<br>for the <i>qrt1-1</i> mutation and<br>homozygous and hemizygous for<br>the <i>pAt5g17340:UidA:GFP</i>                   |
|  |   |   |                     |       |  |

 $\label{eq:additional file 3: Table S1 - Table listing the lines reported in this manuscript$