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| **Table S1.** Arabidopsis mutants used in this work |
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| Alellea | Line (NASC stock code) | Background | Mutagen, mutation and its effects | Mutated gene | Protein/alternative names | Origin |
| *tcu1-1* |  | L*er* | EMS (C→T; Gln→Stop) | At4g37130 | TCU1/NUP58 | d |
| *tcu1-2* | SALK\_099638 (N599638) | Col-0 | T-DNA in the 1st of 5 introns | At4g37130 | TCU1/NUP58 | e |
| *tcu1-3* | SALK\_023793 (N523793) | Col-0 | T-DNA in the 1st of 6 exons | At4g37130 | TCU1/NUP58 | e |
| *tcu1-4* | SAIL\_655\_C09 (N828449) | Col-0 | T-DNA in the 1st of 6 exons | At4g37130 | TCU1/NUP58 | f |
| *tcu1-5* | SAIL\_349\_B01 (N816242) | Col-0 | T-DNA in the 2nd of 6 exons | At4g37130 | TCU1/NUP58 | f |
| *nup54-1* | SALK\_106346 (N606346) | Col-0 | T-DNA in the 1st of 9 exons | At1g24310 | NUP54 | e |
| *nup54-2* | SALK\_015252 (N658102) | Col-0 | T-DNA in the 7th of 8 introns | At1g24310 | NUP54 | e |
| *nup62-1* | SALK\_037337 (N537337) | Col-0 | T-DNA in the 5th of 8 introns | At2g45000 | NUP62 | e |
| *nup62-2* | SAIL\_127\_F01 (N806197) | Col-0 | T-DNA in the 8th of 9 exons | At2g45000 | NUP62 | f |
| *sar1-4* | SALK\_126801 (N626801) | Col-0 | T-DNA in the 17th of 26 exons | At1g33410 | NUP160/SAR1 | g |
| *sar1-5* | SALK\_133728 (N660612) | Col-0 | T-DNA in the 7th of 26 exons | At1g33410 | NUP160/SAR1 | e |
| *sar3-1* |  | Col-0 | γ-rays (point deletion) | At1g80680 | NUP96/SAR3/MOS3 | g |
| *sar3-3* | SALK\_109959 (N609959) | Col-0 | T-DNA in the 4th of 5 introns | At1g80680 | NUP96/SAR3/MOS3 | g |
| *imn* | SAIL\_378\_F08 (N817444) | Col-0 | T-DNA in the 3rd of 3 exons | At5g53480 | IMN | f |
| *hst-21* (*icu3*) |  | L*er* | EMS (G→A; Trp→Stop)b | At3g05040 | HST | d |
| *as1-13* |  | L*er* | EMSc | At2g37630 | AS1 | d |
| *as2-11* |  | L*er* | EMSc | At1g65620 | AS2 | d |
| *icu5* (*shy2-10*) | N379 | En-2 | Unknown (G→A; Gly→Gln) | At1g04240 | SHY2/IAA3/ICU5 | h |
| *axr1-12* | N3076 | Col-0 | EMS (single nucleotide substitution at position 1426 in exon 11) | At1g05180 | AXR1 | i |
| *axr3-3* | N57505 | Col-1 | EMS (T→G; Val→Gly) | At1g04250 | AXR3/IAA17 | j |

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