

WHAT IS CLAIMED IS:

- 1 1. A method of obtaining a plant that has reduced non-edible biomass
2 compared to a counterpart control plant, the method comprising disrupting expression of an
3 endogenous PARP gene of the plant; and
4 selecting a plant that has a reduction in the proportion of non-edible biomass
5 compared to the counterpart control plant.
- 1 2. The method of claim 1, wherein the PARP gene is a PARP2 gene.
- 1 3. The method of claim 1 or 2, wherein the plant is a tomato plant, potato
2 plant, citrus plant, strawberry plant, pepper plant, or blueberry plant.
- 1 4. The method of claim 3, wherein the plant is a tomato plant.
- 1 5. The method of any one of claims 1 to 4, wherein the step of disrupting
2 expression of the PARP gene comprises introducing an RNA-guided nuclease into the plant ,
3 wherein the RNA guides target the PARP gene.
- 1 6. The method of claim 5, wherein the RNA-guided nuclease is a Cas
2 polypeptide.
- 1 7. The method of claim 6, wherein the RNA guide nuclease is a Cas9
2 polypeptide.
- 1 8. A plant obtained by the method of any one of claims 1 to 7.