Supplementary Table 4. Nonsense and frameshift in both samples as compared to reference genome

### Nonsense

| gene          | chrom | pos  | ref  | alt  | dna   | prot  | effect | gous in dw | TAIR TOP hit | TAIR TOP hit function |
|---------------|-------|------|------|------|-------|-------|--------|------------|---------------|-----------------------|
| GLYMA02G02441 | 2     | 1834062 | G   | A    | 16C>T | Arg6* | No     | Y          | AT1G14410     | ssDNA-binding transcriptional regulator |
| GLYMA13G06151 | 13    | 645142 | C   | T    | 566G>A | Trp189* | No     | Y          | AT3G02100     | UDP-Glycosyltransferase superfamily protein |
| GLYMA0086500250 | 20     | 40432 | G   | A    | 1171C>T | Gln391* | Yes    | Y          | AT3G51690     | Pif1 helicase |

### Frameshift

| gene          | chrom | pos  | ref  | alt  | dna   | prot  | effect | gous in dw | TAIR TOP hit | TAIR TOP hit function |
|---------------|-------|------|------|------|-------|-------|--------|------------|---------------|-----------------------|
| GLYMA02G07895 | 2     | 6231825 | AATATATAT | A,AATATATAT | 161_162insATATA | Tyr58fs | Tyr58fs | No     | AT1G20380     | Prolyl oligopeptidase family protein |
| GLYMA03G37750 | 3     | 44271256 | TGGGGG | T,TGGGGGG | 2037dupG | Ile604fs | Ile604fs | No     | AT4G02070     | MHTS homolog 6 |
| GLYMA11G37110 | 11    | 3833736 | TA  | T    | 32delT | Leu11fs | Leu11fs | No     | AT1G13710     | cytochrome P450, family 7, subfamily A, polypeptide 5 |
| GLYMA16G28670 | 16    | 32614346 | AG  | A    | 1807delG | Glu603fs | Glu603fs | No     | AT2G34930     | disease resistance family protein / LRR family protein |
| GLYMA16G28670 | 16    | 32614350 | G   | GT   | 1811dupT | Leu604fs | Leu604fs | No     | AT2G34930     | disease resistance family protein / LRR family protein |
| GLYMA18G46080 | 18    | 55842110 | A   | AT   | 1530dupA | Ser511fs | Ser511fs | No     | AT3G01150     | Protein of unknown function (DUF674) |
| GLYMA18G46080 | 18    | 55842124 | C   | CTG  | 1516_1517insTA | Ser506fs | Ser506fs | No     | AT3G01150     | Protein of unknown function (DUF674) |
| GLYMA18G46080 | 18    | 55842491 | TCCAACCCG | A   | 239_240insATAC | Thr80fs | Thr80fs | No     | AT4G08850     | Leucine-rich repeat receptor-like protein kinase family protein |
| GLYMA18G46080 | 18    | 58356454 | ACCCGTG | A   | 239_240insATAC | Thr80fs | Thr80fs | No     | AT4G08850     | Leucine-rich repeat receptor-like protein kinase family protein |
| GLYMA18G46080 | 18    | 58356456 | CCGGTAT | C   | 236_243delATAC | Tyr79fs | Tyr79fs | No     | AT4G08850     | Leucine-rich repeat receptor-like protein kinase family protein |
| GLYMA18G46080 | 18    | 58356460 | AT   | A    | 233delT | Tyr79fs | Tyr79fs | No     | AT4G08850     | Leucine-rich repeat receptor-like protein kinase family protein |
| GLYMA18G46080 | 18    | 58356460 | AC   | A    | 233delT | Cys78fs | Cys78fs | No     | AT4G08850     | Leucine-rich repeat receptor-like protein kinase family protein |
| GLYMA18G46080 | 18    | 58356460 | TG   | T    | 230delC | Pro77fs | Pro77fs | No     | AT4G08850     | Leucine-rich repeat receptor-like protein kinase family protein |
| GLYMA18G46080 | 18    | 58356481 | GA   | G    | 219delT | Val73fs | Val73fs | No     | AT4G08850     | Leucine-rich repeat receptor-like protein kinase family protein |
| GLYMA18G46080 | 18    | 58356485 | GCCAA | A   | 214_215insTGG | Thr72fs | Thr72fs | No     | AT4G08850     | Leucine-rich repeat receptor-like protein kinase family protein |