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| **Strain** | **Generation** | **Changed Allele** | **Difference** |
| ZDB409(+) | 5,000 | *ykgK*/*ykgL*  | Evolved allele from ZDB478 added |
| ZDB409(+) | 5,000 | *eaeH* | Evolved allele removed |
| ZDB409(Ø)\* | 5,000 | *eaeH* | Evolved allele removed |
| ZDB429(Ø)\* | 10,000 | *ykgK*/*ykgL* | Evolved allele from ZDB478 added |
| ZDB446(+) | 15,000 | *ykgK*/*ykgL* | Evolved allele from ZDB478 added |