

CONSTRUCTION OF TRANSFORMATION VECTOR CARRYING INCREASING SEED YIELD GENE *AtBBX32* ISOLATED FROM *Arabidopsis thaliana*

Nguyen Trinh Hoang Anh, Nguyen Tien Dung, Bui Tri Thuc

SUMMARY

Development of transgenic plants is one of highly effective solution to meet demand for food due to expanding worldwide population as well climate change. *AtBBX32* is a member of the B-Box protein and has been reported in increasing seed yield. In this study, we amplified the 678bp-full length CDS of *AtBBX32* gene by PCR using AtBX32-XbaIF and AtBX32-SacIR primers. *AtBX32* gene was cloned using *E.coli* DH5a and confirmed by colony-PCR, enzyme digestion and sequencing. The result of blast search on NCBI showed that *AtBBX32* gene was 100% identical sequence with accession No. [NM_113009.3](#). *AtBBX32* was then inserted in binary vector pCKLSL under the control of constitutive TP promoter. pCKLSL::TP^P-*AtBBX32* construct was introduced into agrobacterium EHA105 used for plant transformation.

Keywords: Arabidopsis, *AtBBX32*, construction, transformation, vector.