Genomic DNA

~2.5kb

ATG

Primer design by Perl script and PCR

attB promoter amplicon

Gateway® BP Cloning into entry vector
Sequence check

promoter

Gateway® LR Cloning into destination vector pYXT2

Promoter  GFP

Tri-parental mating with Agrobacterium

Colony screen with promoter specific primers

Transform into Arabidopsis via floral dip

T0 plants

Select transgenic seedlings on kanamycin plates

T1 plants

Enter data into database

Examine GFP expression in transgenic plants

Sample transgenic plants to verify transgene presence