**List of DNA parts for plants deposited in the JBEI registry**

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| **Plasmid Name** | **Part Name** | **Part Type** | **Origin** | **Description** | **Strain Part ID** | **Reference** |
| pms5055 | {L\_tOcs} | Linker | Agrobacterium | Octopine Synthase, primary linker | JBx\_042264 | used in Farhi et al, Nat Biotech 201127 |
| pms5056 | {T\_tNos} | Terminator | Agrobacterium | Nopaline Synthase terminator | JBx\_042266 | used in Farhi et al, Nat Biotech 201127 |
| pms5057 | {P\_AtFBA2} | Promoter | Arabidopsis | Fructose-bisphosphate aldolase 2 promoter | JBx\_042268 | Lu et al, Gene 201228 |
| pms5058 | {P\_AtRbcs1A} | Promoter | Arabidopsis | Rubisco Small Subunit promoter | JBx\_042270 | used in Farhi et al, Nat Biotech 201127 |
| pms5059 | {P\_AtC4H} | Promoter | Arabidopsis | Cinnamate-4-hydroxylase, secondary cell wall promoter | JBx\_042272 | used in Yang F et al, Plant Biotech J 201329 |
| pms5060 | {P\_AtC4H\_short} | Promoter | Arabidopsis | Cinnamate-4-hydroxylase, secondary cell wall promoter (truncated) | JBx\_042274 | Yang F et al, Plant Biotech J 201329 |
| pms5062 | {P\_nos} | Promoter | Agrobacterium | Nopaline synthase promoter | JBx\_042276 | used in Farhi et al, Nat Biotech 201127 |
| pms5063 | {P\_MAS} | Promoter | Agrobacterium | Mannopine synthase promoter | JBx\_042278 | used in Langridge et al, PNAS 198930 |
| pms5064 | {T\_tAtHsp} | Terminator | Arabidopsis | Heat shock protein terminator | JBx\_042280 | promoter used in Farhi et al, Nat Biotech 201127 |
| pms5065 | {T\_tAtRbcS} | Terminator | Arabidopsis | Rubisco Small Subunit terminator | JBx\_042282 | used in Farhi et al, Nat Biotech 201127 |
| pms5066 | {T\_MAS} | Terminator | Arabidopsis | Mannopine synthase terminator | JBx\_042284 | promoter used in Langridge et al, PNAS 198930 |
| pms5067 | {L\_tAtHsp} | Linker | Arabidopsis | Heat shock protein linker | JBx\_042286 | used in Sarrion-Perdigones et al, Plant Physiol 201331 |
| pms5068 | {L\_tAtRbcS} | Linker | Arabidopsis | Rubisco Small Subunit linker | JBx\_042288 | used in Farhi et al, Nat Biotech 201127 |
| pms5069 | {L\_MAS} | Linker | Agrobacterium | Mannopine synthase linker | JBx\_042290 | promoter used in Langridge et al, PNAS 198930 |
| pms5070 | {C\_GFP} | CDS | synthesized | GFP | JBx\_042292 | Lao et al, Plant J 201432 |
| pms5071 | {C\_GFP\_attEpitope} | CDS | synthesized | GFP-attEpitope | JBx\_042294 | Lao et al, Plant J 201432 |
| pms5072 | {C\_sfGFP} | CDS | synthesized | superfolder GFP | JBx\_042296 | Kittleson et al, J Biol Eng 201tt33 |
| pms5077 | {P\_AtUbq10} | Promoter | Arabidopsis | Polyubiquitin 10 promoter | JBx\_042298 | used in Sarrion-Perdigones et al, Plant Physiol 201331 |
| pms5078 | {P\_AtHsp18} | Promoter | Arabidopsis | Heat shock protein 18 promoter | JBx\_042300 | used in Farhi et al, Nat Biotech 201127 |
| pms5079 | {P\_AtHsp70} | Promoter | Arabidopsis | Heat shock protein 70 promoter | JBx\_042302 | used in Sung et al, Plant Physiol 200134 |
| pms5080 | {P\_AtAct2} | Promoter | Arabidopsis | Actin 2 promoter | JBx\_042304 | used in Sarrion-Perdigones et al, Plant Physiol 201331 |
| pms5081 | {P\_At2S3} | Promoter | Arabidopsis | AT2S3 seed specific promoter | JBx\_042306 | used in Emami et al, Front Plant Sci 201335 |
| pms5082 | {P\_AtBch1} | Promoter | Arabidopsis | Beta carotenoid hydroxylase 1 promoter | JBx\_042308 | used in Sarrion-Perdigones et al, Plant Physiol 201331 |
| pms5083 | {P\_AtUbq3} | Promoter | Arabidopsis | Ubiquitin 3 promoter | JBx\_042310 | used in Sarrion-Perdigones et al, Plant Physiol 201331 |
| pms5084 | {P\_AtPYK10} | Promoter | Arabidopsis | PYK10 root specific promoter | JBx\_042312 | used in Nitz et al, Plant Sci 200136 |
| pms5085 | {P\_AtJAL34} | Promoter | Arabidopsis | JAL34 predicted root specific promoter | JBx\_042314 | Yamada et al, Plant Cell Physiol 201137 |
| pms5086 | {P\_AtWRKY6} | Promoter | Arabidopsis | WRKY6 predicted root specific promoter | JBx\_042316 | Robatzek and Somssich, Genes Dev 200238 |
| pms5087 | {P\_At3g24240} | Promoter | Arabidopsis | root specific promoter | JBx\_042318 | used in Shinohara et al, PNAS, 201639 |
| pms5088 | {P\_At2g45430} | Promoter | Arabidopsis | predicted root specific promoter | JBx\_042320 | Zhao et al, PNAS 201340 |
| pms5089 | {P\_AtHY5} | Promoter | Arabidopsis | Elongated Hypocotyl 5 promoter | JBx\_042322 | Chattopadhyay et al, Plant Cell 199841 |
| pms5090 | {T\_AtAct2} | Terminator | Arabidopsis | Actin 2 terminator | JBx\_042324 | used in Sarrion-Perdigones et al, Plant Physiol 201331 |
| pms5091 | {T\_AtBch1} | Terminator | Arabidopsis | Beta carotenoid hydroxylase 1 terminator | JBx\_042326 | used in Sarrion-Perdigones et al, Plant Physiol 201331 |
| pms5092 | {T\_AtHsp18.2} | Terminator | Arabidopsis | Heat shock protein 18 terminator | JBx\_042328 | promoter used in Farhi et al, Nat Biotech 201127 |
| pms5093 | {T\_AtUbq3} | Terminator | Arabidopsis | Ubiquitin 3 terminator | JBx\_042330 | used in Sarrion-Perdigones et al, Plant Physiol 201331 |
| pms5094 | {T\_AtPYK10} | Terminator | Arabidopsis | PYK10 terminator | JBx\_042332 | promoter characterized in Nitz et al, Plant Sci 200136 |
| pms5095 | {T\_AtJAL34} | Terminator | Arabidopsis | JAL34 terminator | JBx\_042334 | gene characterized in Yamada et al, Plant Cell Physiol 201137 |
| pms5096 | {T\_AtWRKY6} | Terminator | Arabidopsis | WRKY6 terminator | JBx\_042336 | promoter characterized in Robatzek and Somssich, Genes Dev 200238 |
| pms5097 | {T\_At3g24240} | Terminator | Arabidopsis | At3g24240 terminator | JBx\_042338 | promoter used in Shinohara et al, PNAS, 201639 |
| pms5098 | {T\_At2g45430} | Terminator | Arabidopsis | At2g45430 terminator | JBx\_042340 | Zhao et al, PNAS 201340 |
| pms5099 | {T\_AtHY5} | Terminator | Arabidopsis | Elongated Hypocotyl 5 terminator | JBx\_042342 | Chattopadhyay et al, Plant Cell 199841 |
| pms5100 | {L\_AtAct2} | Linker | Arabidopsis | Actin 2 linker | JBx\_042344 | used in Sarrion-Perdigones et al, Plant Physiol 201331 |
| pms5101 | {L\_AtBch1} | Linker | Arabidopsis | Beta carotenoid hydroxylase 1 linker | JBx\_042346 | used in Sarrion-Perdigones et al, Plant Physiol 201331 |
| pms5102 | {L\_AtHsp18.2} | Linker | Arabidopsis | Heat shock protein 18 linker | JBx\_042348 | promoter used in Farhi et al, Nat Biotech 201127 |
| pms5103 | {L\_AtUbq3} | Linker | Arabidopsis | Ubiquitin 3 linker | JBx\_042350 | used in Sarrion-Perdigones et al, Plant Physiol 201331 |
| pms5104 | {L\_AtPYK10} | Linker | Arabidopsis | PYK10 linker | JBx\_042352 | promoter used in Nitz et al, Plant Sci 200136 |
| pms5105 | {L\_AtJAL34} | Linker | Arabidopsis | JAL34 linker | JBx\_042354 | Yamada et al, Plant Cell Physiol 201137 |
| pms5106 | {L\_AtWRKY6} | Linker | Arabidopsis | WRKY6 linker | JBx\_042356 | Robatzek and Somssich, Genes Dev 200238 |
| pms5107 | {L\_At3g24240} | Linker | Arabidopsis | At3g24240 linker | JBx\_042358 | promoter used in Shinohara et al, PNAS, 201639 |
| pms5108 | {L\_At2g45430} | Linker | Arabidopsis | At2g45430 linker | JBx\_042360 | Zhao et al, PNAS 201340 |
| pms5109 | {L\_AtHY5} | Linker | Arabidopsis | Elongated Hypocotyl 5 linker | JBx\_042362 | Chattopadhyay et al, Plant Cell 199841 |
| pms5125 | {P\_Casp1} | Promoter | Arabidopsis | Casp1 root endodermal promoter | JBx\_042364 | used in Naseer et al, PNAS 201242 |
| pms5126 | {P\_DAISY} | Promoter | Arabidopsis | DAISY root endodermal promoter | JBx\_042366 | used in Naseer et al, PNAS 201242 |
| pms5127 | {P\_KCR1} | Promoter | Arabidopsis | KCR1 root endodermal promoter | JBx\_042368 | used in Naseer et al, PNAS 201242 |
| pms5128 | {P\_HORST} | Promoter | Arabidopsis | HORST root endodermal promoter | JBx\_042370 | used in Naseer et al, PNAS 201242 |
| pms5129 | {P\_CYP86B1} | Promoter | Arabidopsis | CYP86B1 root endodermal promoter | JBx\_042372 | used in Naseer et al, PNAS 201242 |
| pms5130 | {P\_CYP705A1} | Promoter | Arabidopsis | CYP705A1 root endodermal promoter | JBx\_042374 | used in Naseer et al, PNAS 201242 |
| pms5131 | {P\_GPAT5} | Promoter | Arabidopsis | GPAT5 root endodermal promoter | JBx\_042376 | used in Naseer et al, PNAS 201242 |
| pms5132 | {P\_ASFT} | Promoter | Arabidopsis | ASFT root endodermal promoter | JBx\_042378 | used in Naseer et al, PNAS 201242 |
| pms5133 | {P\_FAR4} | Promoter | Arabidopsis | FAR4 root endodermal promoter | JBx\_042380 | used in Naseer et al, PNAS 201242 |
| pms5206 | {C\_synVioA} | CDS | synthesized | VioA, violacein biosynthesis enzyme | JBx\_042382 | characterized in this study |
| pms5207 | {C\_synVioB} | CDS | synthesized | VioB, violacein biosynthesis enzyme | JBx\_042384 | characterized in this study |
| pms5208 | {C\_synVioC} | CDS | synthesized | VioC, violacein biosynthesis enzyme | JBx\_042386 | characterized in this study |
| pms5209 | {C\_synVioD} | CDS | synthesized | VioD, violacein biosynthesis enzyme | JBx\_042388 | characterized in this study |
| pms5210 | {C\_synVioE} | CDS | synthesized | VioE, violacein biosynthesis enzyme | JBx\_042390 | characterized in this study |
| pms5793 | {T\_tG7} | Terminator | Agrobacterium | tG7 terminator | JBx\_042392 | used in Butaye et al, Plant J 200443 |
| pms5794 | {L\_tG7} | Linker | Agrobacterium | tG7 linker | JBx\_042394 | used in Butaye et al, Plant J 200443 |
| pms5124 | {C\_dsRed} | CDS | synthesized | dsRed | JBx\_062441 | Lao et al, Plant J 201432 |
| pms5460 | {C\_GUS} | CDS | synthesized | β-glucuronidase | JBx\_062443 | Wally et al, Plant Cell Rep 200844 |
| pms5792 | {P\_SlE8} | Promoter | Tomato | SlE8 fruit specific promoter | JBx\_062445 | used in Butelli et al, Nat Biotech 200845 |
| pms5841 | {P\_OsHPX1} | Promoter | Rice | HPX1 root specific promoter | JBx\_062447 | used in Park et al, Plant Biotech Rep 201346 |
| pms5842 | {P\_TobRB7} | Promoter | Tobacco | TobRB7 root specific promoter | JBx\_062449 | used in Yamamoto et al, Plant Cell 199147 |
| pms5878 | {P\_ZmUBQ1} | Promoter | Maize | Ubiquitin 1 promoter | JBx\_062451 | used in Cornejo et al, Plant Mol Biol 199348 |
| pms5916 | {C\_synBisSyn} | CDS | synthesized | Bisabolene synthase | JBx\_062732 | characterized in this study |
| pms5917 | {C\_c1-synBisSyn} | CDS | synthesized | Chloroplast targetted bisabolene synthase | JBx\_062734 | characterized in this study |
| pms5925 | {C\_c2-EcFPPS} | CDS | synthesized | E. coli FPP synthase | JBx\_062736 | characterized in this study |
| pms5928 | {C\_c3-EcDXS} | CDS | synthesized | E. coli 1-Deoxy-D-xylulose 5-phosphate synthase | JBx\_062459 | characterized in this study |
| pms6116 | {P\_AtIrx5} | Promoter | Arabidopsis | Irx5 secondary cell wall promoter | JBx\_062461 | used in Gondolf et al, BMC Plant Biol 201449 |
| pms6117 | {P\_AtIrx8} | Promoter | Arabidopsis | Irx8 secondary cell wall promoter | JBx\_062463 | Yang et al, Plant Biotech J 201329 |
| pms6126 | {P\_AtCesA7} | Promoter | Arabidopsis | CesA7 secondary cell wall promoter | JBx\_062465 | used in Kim et al, Plant J 201350 |
| pms6392 | {P\_AtNST1} | Promoter | Arabidopsis | NST1 secondary cell wall promoter | JBx\_062467 | used in Vega-Sanchez et al, Plant Biotech J 201551 |
| pms6393 | {P\_AtSAG12} | Promoter | Arabidopsis | SAG12 senescence promoter | JBx\_062469 | used in Vega-Sanchez et al, Plant Biotech J 201551 |
| pms6394 | {P\_AtVND6} | Promoter | Arabidopsis | VND6 secondary cell wall promoter | JBx\_062471 | used in Kubo et al, Genes and Dev 200552 |
| pms6395 | {P\_AtVND7} | Promoter | Arabidopsis | VND7 secondary cell wall promoter | JBx\_062473 | used in Kubo et al, Genes and Dev 200552 |
| pms6396 | {T\_AtNST1} | Terminator | Arabidopsis | NST1 terminator | JBx\_062475 | promoter used in Vega-Sanchez et al, Plant Biotech J 201551 |
| pms6397 | {T\_AtSAG12} | Terminator | Arabidopsis | SAG12 terminator | JBx\_062477 | promoter used in Vega-Sanchez et al, Plant Biotech J 201551 |
| pms6398 | {T\_AtVND6} | Terminator | Arabidopsis | VND6 terminator | JBx\_062479 | promoter used in Kubo et al, Genes and Dev 200552 |
| pms6399 | {T\_AtVND7} | Terminator | Arabidopsis | VND7 terminator | JBx\_062481 | promoter used in Kubo et al, Genes and Dev 200552 |
| pms6400 | {L\_AtNST1} | Linker | Arabidopsis | NST1 linker | JBx\_062483 | promoter used in Vega-Sanchez et al, Plant Biotech J 201551 |
| pms6401 | {L\_AtSAG12} | Linker | Arabidopsis | SAG12 linker | JBx\_062485 | promoter used in Vega-Sanchez et al, Plant Biotech J 201551 |
| pms6402 | {L\_AtVND6} | Linker | Arabidopsis | VND6 linker | JBx\_062487 | promoter used in Kubo et al, Genes and Dev 200552 |
| pms6403 | {L\_AtVND7} | Linker | Arabidopsis | VND7 linker | JBx\_062489 | promoter used in Kubo et al, Genes and Dev 200552 |
| pms6404 | {T\_AtHsp70} | Terminator | Arabidopsis | Hsp70 terminator | JBx\_062491 | Sung et al, Plant Physiol 200134 |
| pms6405 | {T\_At2S3} | Terminator | Arabidopsis | At2S3 terminator | JBx\_062493 | promoter characterized in Emami et al, Front Plant Sci 201335 |
| pms6406 | {T\_AtFBA2} | Terminator | Arabidopsis | FBA2 terminator | JBx\_062495 | Lu et al, Gene 201228 |
| pms6408 | {T\_AtCASP1} | Terminator | Arabidopsis | CASP1 terminator | JBx\_062497 | promoter characterized in Naseer et al, PNAS 201242 |
| pms6409 | {T\_AtKCR1} | Terminator | Arabidopsis | KCR1 terminator | JBx\_062499 | promoter characterized in Naseer et al, PNAS 201242 |
| pms6410 | {T\_AtASFT} | Terminator | Arabidopsis | ASFT terminator | JBx\_062501 | promoter characterized in Naseer et al, PNAS 201242 |
| pms6411 | {L\_AtHsp70} | Linker | Arabidopsis | Hsp70 linker | JBx\_062503 | Sung et al, Plant Physiol 200134 |
| pms6412 | {L\_At2S3} | Linker | Arabidopsis | At2S3 linker | JBx\_062505 | promoter characterized in Emami et al, Front Plant Sci 201335 |
| pms6413 | {L\_AtFBA2} | Linker | Arabidopsis | FBA2 linker | JBx\_062507 | Lu et al, Gene 201228 |
| pms6414 | {L\_AtUbq10} | Linker | Arabidopsis | Ubq10 linker | JBx\_062509 | promoter used in Sarrion-Perdigones et al, Plant Physiol 201331 |
| pms6416 | {L\_AtCASP1} | Linker | Arabidopsis | CASP1 linker | JBx\_062511 | promoter characterized in Naseer et al, PNAS 201242 |
| pms6417 | {L\_AtKCR1} | Linker | Arabidopsis | KCR1 linker | JBx\_062513 | promoter characterized in Naseer et al, PNAS 201242 |
| pms6418 | {L\_AtASFT} | Linker | Arabidopsis | ASFT linker | JBx\_062515 | promoter characterized in Naseer et al, PNAS 201242 |
| pms6422 | {P\_AtAMT1.1} | Promoter | Arabidopsis | AMT1.1 promoter | JBx\_062517 | used in Loque et al, Plant J 200653 |
| pms6424 | {P\_AtPht1.1} | Promoter | Arabidopsis | Pht1.1 promoter | JBx\_062519 | used in Mudge et al, Plant J 200254 |
| pms6425 | {P\_AtPht1.4} | Promoter | Arabidopsis | Pht1.4 ptomoter | JBx\_062521 | used in Mudge et al, Plant J 200254 |
| pms6426 | {P\_AtIRT1.1} | Promoter | Arabidopsis | IRT1.1 promoter | JBx\_062523 | used in Vert et al, Plant Cell 200255 |
| pms6433 | {T\_AtIRT1.2} | Terminator | Arabidopsis | IRT1.2 terminator | JBx\_062525 | Varotto et al, Plant J 200256 |
| pms6434 | {L\_AtAMT1.1} | Linker | Arabidopsis | AMT1.1 linker | JBx\_062527 | promoter used in Loque et al, Plant J 200653 |
| pms6435 | {L\_AtAMT1.3} | Linker | Arabidopsis | AMT1.3 linker | JBx\_062529 | promoter used in Loque et al, Plant J 200653 |
| pms6436 | {L\_AtPht1.1} | Linker | Arabidopsis | Pht1.1 linker | JBx\_062531 | promoter used in Mudge et al, Plant J 200254 |
| pms6437 | {L\_AtPht1.4} | Linker | Arabidopsis | Pht1.4 linker | JBx\_062533 | promoter used in Mudge et al, Plant J 200254 |
| pms6438 | {L\_AtIRT1.1} | Linker | Arabidopsis | IRT1.1 linker | JBx\_062535 | promoter used in Vert et al, Plant Cell 200255 |
| pms6439 | {L\_AtIRT1.2} | Linker | Arabidopsis | IRT1.2 linker | JBx\_062537 | Varotto et al, Plant J 200256 |