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Engineering of Shikimate pathway and Terminal Branch for Efficient Production of L-tryptophan in *Escherichia coli*

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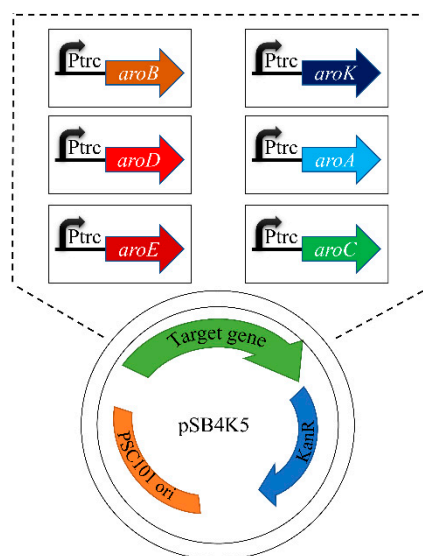


Figure S1. Schematic diagram of constructing plasmids (pSB4K5-aroB, pSB4K5-aroD, pSB4K5-aroE, pSB4K5-aroK, pSB4K5-aroA, and pSB4K5-aroC) for overexpressing shikimate pathway genes

Table S1 Gradient elution program of HPLC for detection of L-trp, L-tyr, L-phe, and anthranilate.

Time (min)	methanol (A)	0.05% H ₃ PO ₄ (B)
0-3	2%	98%
3-22	2-80%	98-20%
22-25	2-80%	98-20%
25-26	80-2%	20-98%

an Inertsil ODS-SP column (250 mm × 4.6 mm i.d., 5 μm, GL Sciences, Japan) was used for gradient elution. The flow rate was set to 1 ml/min, and the detection wavelength was 210 nm.

The base sequence of pSB4K5 is as follows :

cgaagaaaggccacccgtgaaggtgagccagtgagttgattgctacgtaattagttagtagcccttagtgact
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