

piP-H-XEL	
Cat. No.	P-201
Use:	Secretion vector with <i>OmpA</i> signal peptide sequence-His-Tag under the control of <i>lpp</i> promoter in <i>E. coli</i>
Gene/Insert name:	—
Vector backbone:	piP-H-XEL
Vector type:	<i>E. coli</i>
Backbone size w/o insert (bp):	2,866
Bacterial resistance:	Ampicillin
Growth strain:	JM83
Growth temperature (°C):	37
Growth instructions:	piP-H-XEL is resistant to ampicillin (50 µg/mL)
High or low copy:	High copy
Vector map:	piP-H-XEL
Plasmid sequence:	piP-H-XEL (2,866 bp)
Restriction enzyme list:	Restriction enzyme sites of piP-H-XEL
GenBank Accession No.:	—
Size:	10 µg
Terms and Licenses:	MTA
Laboratory Reagent For Research Use Only	

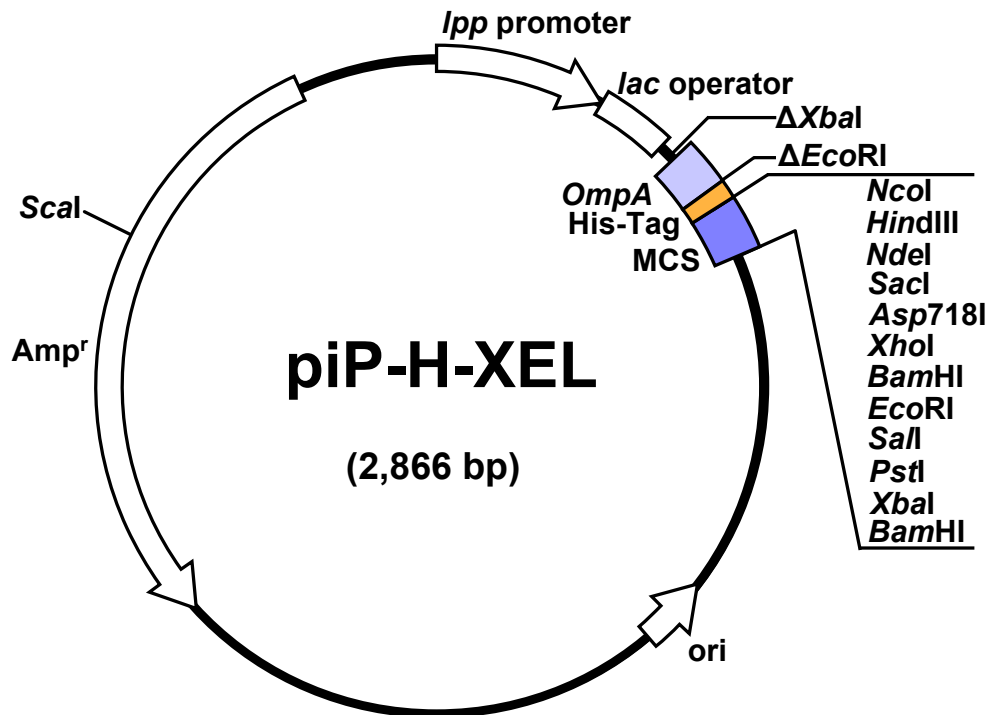
piP-H-XEL: Secretion vector in *E. coli*

Cat. No. P-201

Name: piP-H-XEL

Vector: pUC8 derivative

Use: Secretion vector with *OmpA* signal peptide sequence–His-Tag under the control of *lpp* promoter in *E. coli*



• Amino-terminal region of piP-H-XEL:

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aca gga aac agc tat gac cat gat tac gga ttc act gga act cta gct aga
                                     ΔXbaI
          M   K   K   T   A   I   A   I   A   V   A   L
taa cga ggg caa aaa ATG AAA AAG ACA GCT ATC GCG ATT GCA GTG GCA CTG
                                     OmpA
A   G   F   A   T   V   A   Q   A ▼ A   N   F   H   H   H   H   H
GCT GGT TTC GCT ACC GTA GCG CAG GCC GCG AAT TtC CAC CAT CAC CAT CAC
                                     ΔEcoRI                               His-Tag
H   G   K   L   H   M   E   L   G   T   L   E   G   S   E   F   V
CAT GGT AAG CTT CAT ATG GAG CTC GGT ACC CTC GAG GGA TCC GAA TTC GTC
NcoI HindIII NdeI SacI Asp718I XhoI BamHI EcoRI SalI

D   L   Q   S   R   G   S
GAC CTG CAG TCT AGA GGA TCC
PstI XbaI BamHI
    
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Ref.

1) piP-H6-M(11)/ ΔXbaI, ΔEcoRI: Inouye, S. & Sahara, Y. *Protein Expr. Purif.* (2007) 53: 384-389.

piP-H-XEL (2,866 bp)

GATAACCAGAAGCAATAAAAAATCAAATCGGATTTCACTATATAATCTCAGTTTATCTAAGATGAATCCG
 ATGGAAGCATCCTGTTTTCTCTCAATTTTTTTTATCTAAAACCCAGCGTTCGATGCTTCTTTGAGCGAACG
 ATCAAAAAATAAGTGCTTCCCATCAAAAAAATATTTCTCAACATAAAAAACTTTGTGTAATACTTGTAACG
 CTACATGGAGATTAACCTCAATCTAGCTAGAGAGGCTTTACACTTTTATGCTTCCGGCTCGTATAATGTGTG
 GAATTGTGAGCGGATAACAATTTACACAGGAAACAGCTATGACCATGATTACGGATTACCTGGAACTCT
 AGCTAGATAACGAGGGCAAAAAATGAAAAAGACAGCTATCGCGATTGCGAGTGGCAGCTGGCTGGTTTCGCT
 ACCGTAGCGCAGGCCGCAATTTCCACCATCACCATCACCATGGTAAGCTTCATATGGAGCTCGGTACCC
 TCGAGGGATCCGAATTCGTGACCTGCAGTCTAGAGGATCCGCTTGCAGAAAAGCTCTACGGTGGAGCTG
 TCCCCTAAGAAGCTCTACGGTGGTGATGCACCCCTAGGAAGATGATGTGATTTTGAATAAAACACTGATGA
 ATTAATTCGTAATCATGGTCATAGCTGTTTCCCTGTGTGAAATTTGTTATCCGCTCACAATTCACACAACA
 TACGAGCCGGAAAGCATAAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTTGCGTT
 GCGCTCACTGCCCGCTTTCCAGTCCGGAAAACCTGTCTGTGCCAGCTGCATTAATGAATCGGCCAACGCGCG
 GGGAGAGGCGGTTTTGCGTATTTGGCGCTCTTCCGCTTCCCTCGCTCACTGACTCGCTGCGCTCGGTCTGTT
 GGCTGCGGCGAGCGGTATCAGCTCAAAAGCGGTAATACGGTTATCCACAGAATCAGGGGATAACGC
 AGGAAAGAACATGTGAGCAAAAAGGCCAGCAAAAAGGCCAGGAACCGTAAAAAGGCCCGCTTCTGGCGTTT
 TTCCATAGGCTCCGCCCTTGACGAGCATCACAAAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGCA
 CAGGACTATAAAGATACCAAGCGCTTTCCCTTGGAAAGCTCCCTCGTGCCTCTCCCTGTTCCGACCCCTGCC
 GCTTACCGGATACCTGTCGCTTCTCCCTTCGGGAAGCGTGGCGCTTTCTCATAGCTCACGCTGTAGG
 TATCTCAGTTCGGTGTAGGTCGTTCCGCTCCAAGCTGGGCTGTGTGCACGAACCCCCGTTTCCGCCCCGACC
 GCTGCGCTTATCCGGTAACTATCGTCTTGAGTCCAACCCGGTAAGACACGACTTATCGCCACTGGCAGC
 AGCCACTGGTAACAGGATTAGCAGAGCGAGGTATGTAGGCGGTGCTACAGAGTTCTTGAAGTGGTGGCCT
 AACTACGGCTACACTAGAAGGACAGTATTTGGTATCTGCGCTCTGCTGAAGCCAGTTACCTTCGGAAAAA
 GAGTTGGTAGCTCTTGATCCGGCAAAACAAACCACCGCTGGTAGCGGTGGTTTTTTTTGTTTGAAGCAGCA
 GATTACGCGCAGAAAAAAGGATCTCAAGAAGATCCTTTGATCTTTTCTACGGGTCTGACGCTCAGTGG
 AACGAAAACCTACGTTAAGGGATTTTGGTATGAGATTATCAAAAAGGATCTTACCTAGATCCTTTTAA
 ATTAATAATGAAGTTTTAAATCAATCTAAAGTATATATGAGTAAACTTGGTCTGACAGTTACCAATGCTT
 AATCAGTGAGGCACCTATCTCAGCGATCTGCTATTTTCGTTTCATCCATAGTTGCCCTGACTCCCCGTCGTT
 TAGATAACTACGATACGGGAGGGCTTACCATCTGGCCCCAGTGTGCAATGATACCGCGAGACCCACGCT
 CACCGGCTCCAGATTTATCAGCAATAAACCCAGCCAGCCGGAAGGGCCGAGCGCAGAAGTGGTCTGCAAC
 TTTATCCGCTCCATCCAGTCTATTAATTTGTTGCCGGGAAGCTAGAGTAAGTAGTTCCGCCAGTTAATAGT
 TTGCGCAACGTTGTTGCCATTGCTACAGGCATCGTGGTGTACGCTCGTCTGTTGGTATGGCTTCATTCA
 GCTCCGTTCCCAACGATCAAGGCGAGTTACATGATCCCCATGTTGTGCAAAAAGCGGTTAGCTCCTT
 CGGTCTCCGATCGTTGTGCAAGTAAGTTGGCCGAGTGTATCACTCATGGTTATGGCAGCATGCAT
 AATTCTTACTGTATGCCATCCGTAAGATGCTTTTCTGTGACTGGTGTGACTCAACCAAGTCAATTCCT
 GAGAATAGTGTATGCGCGACCGAGTTGCTCTTGGCCGCGTCAACACGGGATAAATACCGCGCCACATAG
 CAGAACTTTAAAAAGTGCTCATCATTTGAAAACGTTCTTCCGGGCGAAAACTCTCAAGGATCTTACCGCTG
 TTGAGATCCAGTTTCGATGTAACCCACTCGTGCACCCAACTGATCTTTCAGCATCTTTTACTTTTACCAGCG
 TTTCTGGGTGAGCAAAAAACAGGAAGGCAAAAATGCCGCAAAAAAGGGAATAAGGGCGACACGGAAATGTTG
 AATACTCATACTCTTCTTTTCAATATTATTGAAGCATTATCAGGGTTATTGTCTCATGAGCGGATAC
 ATATTTGAATGTATTTAGAAAAATAAACAAATAGGGGTTCCGCGCACATTTCCCCGAAAAGTGCCACCTG
 ACGTCTAAGAAACCATTATTATCATGACATTAACCTATAAAAAATAGGCGTATCACGAGGCCCTTTG

Residue	Comments
1-241	Lipoprotein(<i>lpp</i>) promoter
242-344	<i>lac</i> operator
373-435	<i>OmpA</i> signal peptide sequence
445-462	His-Tag
466-531	Multiple cloning sites
1,014	ori: Origin of replication
1,809-2,362	Amp ^r : Ampicillin resistance gene

Restriction enzyme sites of piP-H-XEL

Enzyme Name	Sequence	Count	Cutting Positions
AccI	GT!MKAC	1	510
ApaI	GGGCC!C	0	-
Asp718I	G!GTACC	1	485
BamHI	G!GATCC	2	497, 527
BclI	T!GATCA	0	-
BglII	A!GATCT	0	-
EcoRI	G!AATTC	1	503
EcoRV	GAT!ATC	0	-
HincII	GTY!RAC	2	511, 2424
HindIII	A!AGCTT	1	467
KpnI	GGTAC!C	1	489
MluI	A!CGCGT	0	-
NcoI	C!CATGG	1	460
NdeI	CA!TATG	1	474
NheI	G!CTAGC	0	-
NotI	GC!GGCCGC	0	-
PstI	CTGCA!G	1	519
SacI	GAGCT!C	1	483
SalI	G!TCGAC	1	509
ScaI	AGT!ACT	1	2363
SmaI	CCC!GGG	0	-
StuI	AGG!CCT	0	-
XbaI	T!CTAGA	1	521
XhoI	C!TCGAG	1	491

Supplier	Contact us
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